PARTS LIST & CIRCUIT DIAGRAMS

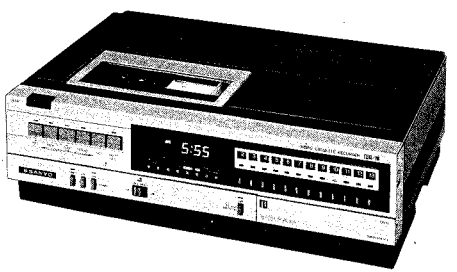
COLOR VIDEO CASSETTE RECORDER

SANYO

VCR3900

(CANADA)

Beta



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CIRCUIT DIAGRAMS

WM-9035

L1BCA

PRODUCT SAFETY NOTICE

The components designated by a symbol (△) in this schematic diagram designates components whose value are of special significance to product safety. Should any component designated by a symbol need to be replaced, use only the part designated in the Parts List. Do not deviate from the resistance, wattage and voltage ratings shown.

PARTS LIST

ACCESSORIES

Ref. No.	Parts No.	Description
	143-6-411T-33200	Owner's Manual (French)
	143-6-411T-33300	Owner's Manual (English)
	143-6-451T-10200	Guarantee Card
	4-282V-10600	Antenna Matching Transformer, 300/75 ohms
	4-282V-10701	U/V Splitter (or)
	4-282V-11300	U/V Splitter (or)
	4-243V-32201	RF Connector Cable
	143-2-289T-05900	Channel Number Sheet (14ch to 83ch)
	143-2-289T-07100	Channel Number Sheet (2ch to 13ch)
	143-6-142T-00400	Accessories Box

NOTE: Parts order must contain Model Number, and Description.

PACKING MATERIALS

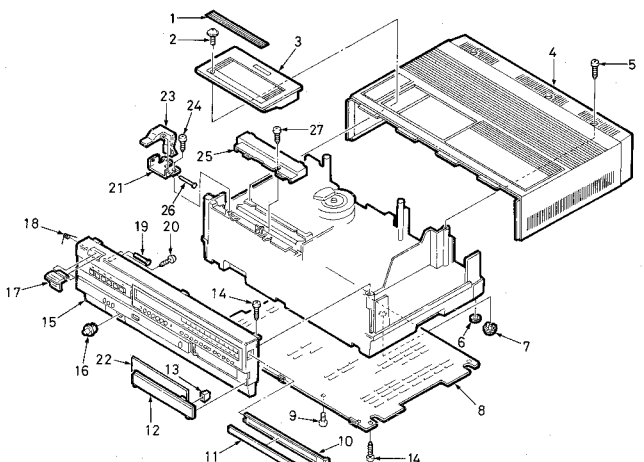
Ref. No.	Parts No.	Description
	143-6-132T-26900	Inner Carton
	143-6-251T-02200	Individual Poly. Cover
	143-6-144T-05900	Pad, Left Side
	143-6-144T-06000	Pad, Right Side

CABINET PARTS

Ref. No.	Parts No.	Description
1	143-2-241T-03700	Veil, Cassette Cover
2		Screw, Binding Hd., Machine, 3 x 6mm, Z1
3	143-0-135T-04800	Cover, Cassette
4	143-9-4200-57500	Cabinet
5		Screw, Pan Hd., Tapping, 4 x 20mm, ZK
6	143-2-174T-02400	Plastic Cushion (5 used)
7	143-2-174T-02700	Foot, Bottom Lid
8	143-2-125T-03900	Bottom Lid
9		Screw, Binding Hd., Tapping, 3 x 6mm, Z1
10	143-2-238T-01900	Channel Indicator Panel
11	143-2-143T-22900	Channel Indicator
12	143-2-133T-10200	Channel Pre-set Compartment Lid
13	143-2-135T-18600	AFT ON/OFF Knob
14		Screw, Pan Hd., Tapping, 4 x 16mm, Z1

Ref. No.	Parts No.	Description
15	143-0-122T-10300	Front Panel
16	143-2-163T-02900	Tracking Control Knob
17	143-2-161T-22600	EJECT Button
18	143-2-852T-05500	Spring Wire, EJECT Button
19	143-2-751T-57800	Shaft, EJECT Button
20		Screw, Pan Hd., Tapping, 3 x 8mm, Z1
21	143-2-351T-48800	Bracket, Operation EJECT Lever
22	143-6-479T-22700	Label, Compartment Lid
23	143-2-741T-38800	Operation EJECT Lever
24		Screw, Washer Hd., Tapping, 3 x 10mm, Z1
25	143-2-241T-03800	Veil, Mechanism Cover
26	143-2-751T-64500	Shaft, Operation EJECT Lever
27		Screw, Washer Hd., Tapping, 3 x 12mm, Z1

NOTE: Parts order must contain Model Number, and Description.

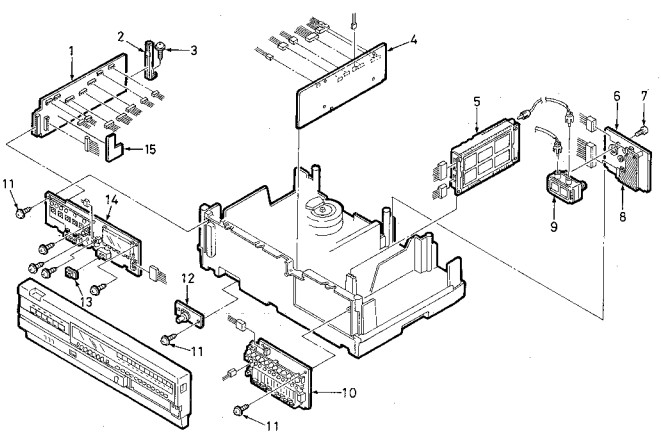


FRONT CONTROL & REAR TERMINAL PARTS

Ref. No.	Parts No.	Description
1	143-9-0300-06900	SY-1 Circuit Board Assembly Include SY-3 & SY-4 PCB., System Control
2	143-2-377T-15400	Bracket, SY-1 P.C. Board
3		Screw, Washer Hd., Tapping, 3 x 12mm, Z1
4	143-9-0400-03700	SV-1 Circuit Board Assembly, Servo
5	4-115V-16600	Tuner & I.F. Pack
6	4-237V-16500	Antenna Terminal Board
7		Screw, Pan Hd., Machine, 3 x 6mm, ZK
8	4-226V-92400	TB-1 P.C.Board, Antenna Terminal

Ref. No.	Parts No.	Description
9	4-231V-99000	Antenna Select Switch
10	143-9-0600-05900	TN-2 Circuit Board Assembly, Channel Pre-set & Select
11		Screw, Washer Hd., Tapping, 3 x 10mm, Z1
12	143-9-0400-04100	SV-5 Circuit Board Assembly, Tracking Control V.R.
13	143-2-164T-04600	Tape Speed Select Knob
14	143-9-0300-06800	SY-2 Circuit Board Assembly, Timer & Operation
15	143-9-0300-11000	SY-4 Circuit Board Assembly

NOTE: Parts order must contain Model Number, and Description.

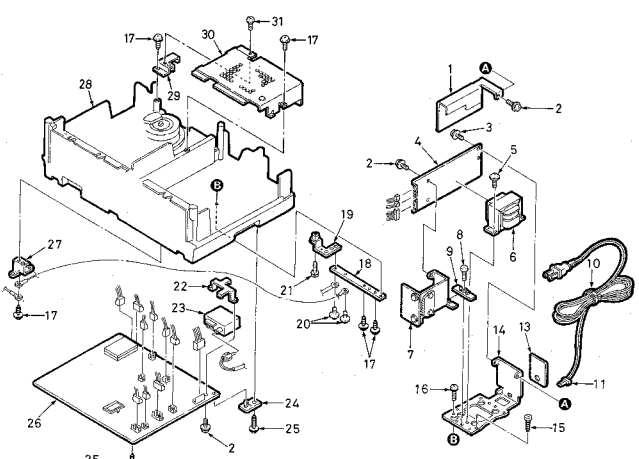


BOTTOM & RIGHT SIDE P.C.B.'s PARTS

Ref. No.	Parts No.	Description
1	143-2-327T-06800	Insulator, PW-1 P.C.Board
2		Screw, Binding Hd., Tapping, 3 x 6mm, Z1
3		Screw, Binding Hd., Tapping, 3 x 8mm, Z1
4	143-9-0500-07100	PW-1 Circuit Board Assembly, D.C. Power Supply
5		Screw, Washer Hd., Machine (TP Screw), 4 x 8mm, Z1
6	⚠ 4-251V-25800	Power Transformer
7	143-9-0500-07200	PW-2 Circuit Board Assembly, Power I.C.
8		Screw, Washer Hd., Tapping, 3 x 12mm, Z1
9	143-2-327T-06500	Heat Insulator, PW-2 P.C.Board
10	⚠ 4-243V-12611	Power Cord
11	143-2-464T-02700	Fixer, Power Cord
13	143-2-135T-24100	Cover
14	143-2-371T-01400	Bracket, Power Transformer
15		Screw, Pan Hd., Tapping, 4 x 16mm, ZK

Ref. No.	Parts No.	Description
16		Screw with Spring & Flange Washer, Pan Hd., Machine, 3 x 10mm, Z1
17		Screw, Washer Hd., Tapping, 3 x 10mm, Z1
18	143-2-351T-49100	Grounding Plate
19	143-0-351T-09900	Bracket, Mechanism Grounding
20		Screw with Spring Washer, Pan Hd., Machine, 3 x 6mm, Z1
21		Screw with Spring Washer & Flange Washer, Pan Hd., Machine, 3 x 18mm, Z1
22	143-2-351T-50200	Bracket, RF Converter
23	143-9-4300-47500	RF Converter
24	143-2-251T-00900	Hinge (2 used), VD-1 P.C.Board
25		Screw Washer Hd., Tapping, 3 x 12mm, ZR
26	143-9-0100-04600	VD-1 Circuit Board Assembly without RF Convertor, Video & Audio
27	143-2-351T-49000	Bracket, Bottom Grounding
28	143-2-311T-07000	Chassis (not service parts)
29	143-2-465T-10200	Bracket, Shield Plate
30	143-2-322T-26900	Shield Plate
31		Screw with Spring Washer, Pan Hd., Machine, 3 x 6mm, Z1

NOTE: Parts order must contain Model Number, and Description.

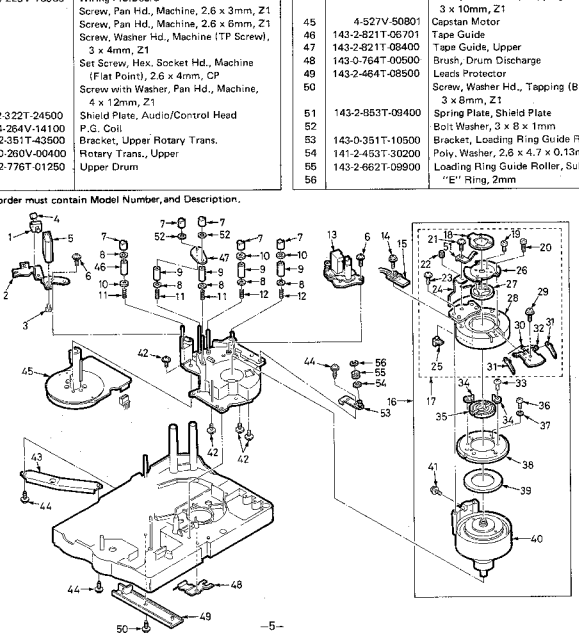


DRUM, CAPSTAN, GUIDE & HEAD PARTS

Ref. No.	Parts No.	Description
1	4-258V-14500	FWD Sensor
2	143-2-375T-07601	Bracket, Erase Hd. & FWD Sensor
3		Screw, Pan Hd., Machine, 2 x 3mm, Z1
4		Polypropylene Capacitor, 3300pF (±2%) 100V
5	4-242V-18401	Erase Head
6		Screw, Washer Hd., Machine (TP Screw), 3 x 6mm, Z1
7	143-2-421T-03400	Special Nut (5 used), Tape Path Adj.
8	143-2-457T-07900	Special Washer (7 used), Tape Path Adj.
9	143-2-821T-08300	Tape Guide (4 used)
10	143-2-457T-07800	Special Washer (3 used), Tape Path Adj.
11	143-2-851T-61000	Spring Coil (3 used), Erase Head
12	143-2-851T-61100	Spring Coil (2 used), Tape Path Adj.
13	143-0-242V-02600	Audio/Control Head Assembly
14		Screw with Spring Washer & Flange Washer, Pan Hd., Machine, 3 x 6mm, Z1
15	4-221V-12601	DEW Sensor
16	143-9-5100-41200	Drum Complete
17	143-0-771T-02400	Upper Drum Complete
18	4-226V-75350	Wiring P.C.Board
19		Screw, Pan Hd., Machine, 2.6 x 3mm, Z1
20		Screw, Pan Hd., Machine, 2.6 x 6mm, Z1
21		Screw, Washer Hd., Machine (TP Screw), 3 x 4mm, Z1
22		Set Screw, Hex. Socket Hd., Machine (Flat Point), 2.6 x 4mm, CP
23		Screw with Washer, Pan Hd., Machine, 4 x 12mm, Z1
24	143-2-322T-24500	Shield Plate, Audio/Control Head
25	4-264V-14100	P.C. Coil
26	143-2-351T-43500	Bracket, Upper Rotary Trans.
27	143-0-260V-00400	Rotary Trans., Upper
28	143-2-776T-01250	Upper Drum

Ref. No.	Parts No.	Description
29		Screw with Spring Washer & Washer, Pan Hd., Machine, 3 x 6mm, Z1
30	143-2-851T-56901	Spring Coil, Tape Path Levers
31	143-2-741T-34300	Tape Path Lever (2 used)
32	143-2-747T-05600	Bracket, Tape Path Lever
33		Screw, Pan Hd., Machine, 2.6 x 4mm, Z1
34	143-2-371T-00500	Bracket (2 used), Lower Rotary Trans. Fix
35	4-260V-00600	Lower Rotary Trans.
36		Screw, Pan Hd., Machine, 3 x 6mm, Z1
37	143-2-457T-06800	Special Washer (2 used), Video Head
38	143-0-242V-01500	Video Head Disc
39	143-2-772T-02600	Spacer, V-head Height Adj., 0.02mm Dia.
or	143-2-772T-02700	Spacer, V-head Height Adj., 0.04mm Dia.
or	————	Not Use.
40	143-0-771T-02500	Lower Drum Complete
41		Screw with Spring Washer & Washer, Pan Hd., Machine, 3 x 8mm, Z1
42		Screw, Washer Hd., Machine (TP Screw), 3 x 8mm, Z1
43	143-2-465T-09900	Bracket, Capstan Motor
44		Screw, Washer Hd., Tapping (B tight), 3 x 10mm, Z1
45	4-527V-50801	Capstan Motor
46	143-2-821T-06701	Tape Guide
47	143-2-821T-08400	Tape Guide, Upper
48	143-0-764T-00500	Brush, Drum Discharge
49	143-2-464T-08500	Leads Protector
50		Screw, Washer Hd., Tapping (B tight), 3 x 8mm, Z1
51	143-2-853T-09400	Spring Plate, Shield Plate
52		Bolt Washer, 3 x 8 x 1mm
53	143-0-351T-10500	Bracket, Loading Ring Guide Roller
54	141-2-453T-30200	Poly. Washer, 2.6 x 4.7 x 0.13mm
55	143-2-662T-09900	Loading Ring Guide Roller, Sub
56		"E" Ring, 2mm

NOTE: Parts order must contain Model Number, and Description.

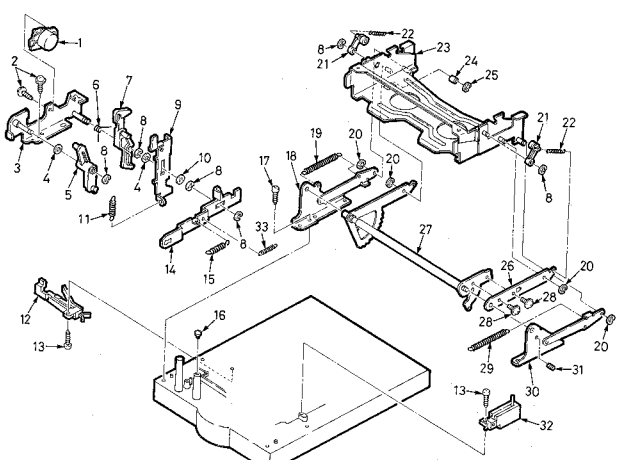


CASSETTE HOLDER MECHANISM PARTS

Ref. No.	Parts No.	Description
1	143-0-774T-00501	Oil Damper
2		Screw, Washer Hd., Tapping (B-tight), 3 x 8mm, Z1
3	143-0-747T-01701	Bracket, Cassette Lock Mechanism
4	141-2-453T-30302	Poly. Washer, 3 x 5.4 x 0.5mm
5	143-2-741T-38200	Lever, Operation EJECT
6	143-2-851T-60300	Spring Coil, Cassette Holder Lock Lever
7	143-2-741T-38100	Lever, Cassette Holder Lock
8		"E" Ring, 2.3mm
9	143-2-741T-38500	Lever, Operation Cassette-in Switch
10	141-2-453T-30301	Poly. Washer, 3 x 5.4 x 0.25mm
11	143-2-851T-60200	Spring Coil, Cassette-in Switch Lever
12	4-231V-81600	Cassette-in Switch
13		Screw, Pan Hd., Tapping, 2.6 x 10mm, Z1
14	143-2-741T-38400	Joint Lever, Operation EJECT
15	143-2-851T-63200	Spring Coil, Joint Lever
16	143-2-462T-20000	Boss, Cassette Tape

Ref. No.	Parts No.	Description
17		Screw, Washer Hd., Tapping (B-tight), 3 x 10mm, Z1
18	143-0-351T-07000	Cassette Holder Stand, Left Side
19	143-2-851T-54900	Cassette-up Spring Coil, Left Side
20		"E" Ring, 3mm
21	143-2-741T-32900	Lever (2 used), Cassette Hold
22	143-2-851T-63400	Spring Coil (2 used), Cassette Hold
23	143-0-351T-06900	Cassette Holder
24	143-2-662T-08900	Roller, Cassette Holder Lock
25		"E" Ring, 1.5mm
26	143-2-741T-32700	Bracket, Cassette-up
27	143-0-751T-01800	Shaft, Cassette-up
28		Screw, Washer Hd., Machine (TP Screw), 3 x 4mm, Z1
29	143-2-851T-64000	Cassette-up Spring Coil, Right Side
30	143-0-351T-07100	Cassette Holder Stand, Right Side
31	143-2-421T-04400	Adjustment Screw, Cassette-up
32	4-231V-81900	Erase Prevention Switch
33	143-2-851T-64300	Spring, Coil (2 used), Cassette Hold

NOTE: Parts order must contain Model Number, Part Number and Description.

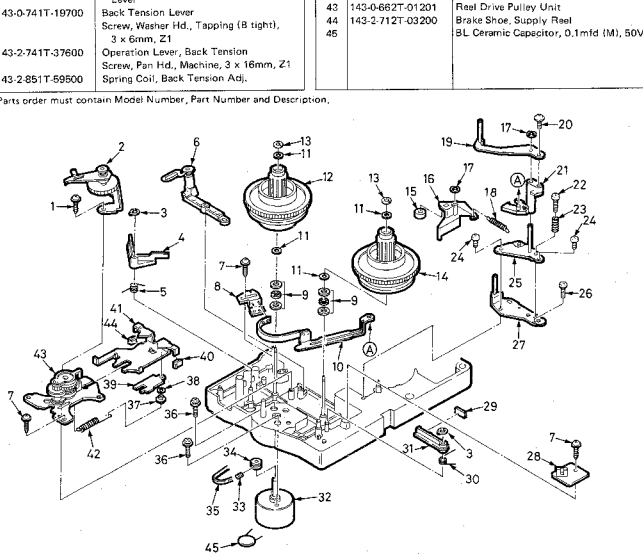


REEL DRIVE MECHANISM PARTS

Ref. No.	Parts No.	Description
1		Screw, Washer Hd., Tapping (B tight), 3 x 10mm, Z1
2	143-0-714T-00200	Rachet Brake Lever
3		Grip Ring, 3mm
4	143-2-741T-39100	Lever, Supply Reel Soft Brake
5	143-2-851T-59700	Spring Coil, Supply Reel Soft Brake Lever
6	143-0-741T-19900	Lever, Operation Mode Select Slide
7		Screw, Washer Hd., Tapping (B tight), 3 x 8mm, Z1
8	143-2-351T-43700	Bracket, Back Tension Brake Band
9	143-2-574T-02800	Bearing (2 used), Reel Bases
10	143-0-711T-00500	Brake Band, Back Tension
11	141-2-453T-30300	Poly. Washer, 3 x 5.4 x 0.13mm (Reel Base Height Adj.)
or	141-2-453T-30301	Poly. Washer, 3 x 5.4 x 0.25mm
or	141-2-453T-30302	Poly. Washer, 3 x 5.4 x 0.5mm
12	143-0-531T-02800	Supply Reel Base
13	143-2-457T-05901	Stopper (2 used), Reel Bases
14	143-0-531T-02900	Take-up Reel Base
15	143-2-662T-09700	Roller, Operation Back Tension Lever
or	143-2-662T-09701	Roller, Operation Back Tension Lever
or	143-2-662T-09702	Roller, Operation Back Tension Lever
16	143-2-741T-37500	Lever, Operation Back Tension Lever
17		"E" Ring, 2.3mm
18	143-2-851T-59400	Spring Coil, Back Tension Operation Lever
19	143-0-741T-19700	Back Tension Lever
20		Screw, Washer Hd., Tapping (B tight), 3 x 6mm, Z1
21	143-2-741T-37600	Operation Lever, Back Tension
22		Screw, Pan Hd., Machine, 3 x 16mm, Z1
23	143-2-851T-59500	Spring Coil, Back Tension Adj.

Ref. No.	Parts No.	Description
24		Screw, Pan Hd., Machine, 3 x 6mm, Z1
25	143-0-747T-01500	Bracket, Back Tension Lever
26		Screw with Spring Washer & Washer, Pan Hd., Machine, 3 x 8mm, Z1
27	143-0-747T-01600	Bracket, Back Tension Lever Block
28	143-9-1300-01100	MC-1 Circuit Board Assembly, Supply Reel Revolution Detect
29	143-2-712T-03000	Brake Shoe, Supply Reel Soft Brake
30	143-2-851T-59600	Spring Coil, Take-up Reel Soft Brake Lever
31	143-2-741T-37400	Lever, Take-up Reel Soft Brake
32	4-529V-10800	Reel Motor
33		Set Screw, Hex. Socket Hd., Machine (Dented Point), 2.6 x 4mm, CP
34	143-2-661T-68800	Reel Motor Pulley
35	143-2-564T-03200	Square Belt, Reel Belt
36		Screw with Spring Washer & Flange Washer, Pan Hd., Machine, 2.6 x 6mm, Z1
37	143-2-681T-12000	Sleeve, Mode Select Slide
38	143-2-457T-08600	Poly. Washer, 4.6 x 8 x 0.5mm, Mode Select Slide
39	143-2-246T-05600	Sheet, Mode Select Slide
40	143-2-712T-02900	Brake Shoe, Take-up Reel
41	143-0-731T-01500	Mode Select Slide
42	143-2-851T-59200	Spring Coil, Mode Select Slide
43	143-0-662T-01201	Reel Drive Pulley Unit
44	143-2-712T-03200	Brake Shoe, Supply Reel
45		BL Ceramic Capacitor, 0.1mfd (M), 50V

NOTE: Parts order must contain Model Number, Part Number and Description.

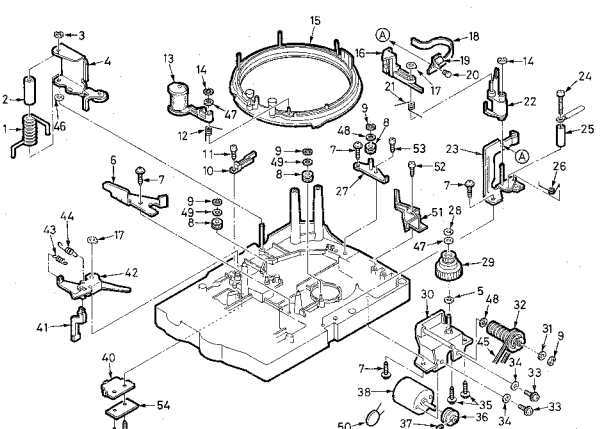


LOADING & UNLOADING MECHANISM PARTS

Ref. No.	Parts No.	Description
1	143-2-851T-60700	Spring Coil, Pinch Roller Pressure
2	143-2-461T-03200	Pipe, Pinch Roller Pressure Lever
3		"E" Ring, 3mm
4	143-0-741T-19801	Lever, Pinch Roller Pressure
5	141-2-453T-30302	Poly. Washer, 3 x 5.4 x 0.5mm
6	143-2-465T-10100	Stopper, Pinch Roller Guide
7		Screw, Washer Hd., Tapping (B tight), 3 x 8mm, Z1
8	143-2-662T-09900	Loading Guide Roller (3 used)
9		"E" Ring, 2mm
10	4-231V-82000	Loading End Switch
11		Screw, Pan Hd., Tapping, 2.6 x 8mm, Z1
12	143-2-851T-60600	Spring Coil, Pinch Roller
13	143-9-5100-40900	Pinch Roller
14		"E" Ring, 2.3mm
15	143-0-683T-00400	Loading Ring
16	4-258V-14401	REW Sensor
17		Grip Ring, 3mm
18	4-226V-93700	Wiring P.C.Board, REW Sensor
19		Polypropylene Capacitor, 3300pF (±2%), 100V
20	143-2-464T-01800	Plastic Pin
21	143-2-851T-61300	Spring Coil, REW Sensor
22	143-2-741T-38300	Lever, Operation REW Sensor
23	143-0-174T-00500	Bracket, REW Sensor
24		Screw with Spring Washer & Washer, Pan Hd., Machine, 3 x 20mm, Z1
25	143-2-461T-03400	Pipe, REW Sensor Lever Stopper
or	143-2-461T-03600	Pipe, REW Sensor Lever Stopper
26	143-2-851T-61400	Spring Coil, Operation REW Sensor Lever
27	143-0-351T-08400	Bracket, Loading Guide Roller
28	143-2-457T-05901	Speical Washer, Shaft Stopper
29	143-2-581T-05300	Gear, Loading Drive

Ref. No.	Parts No.	Description
30	143-0-378T-00700	Bracket, Loading Motor
31	141-2-453T-30201	Poly. Washer, 2.6 x 4.7 x 0.25mm
32	143-0-581T-03200	Worm Gear, Loading Drive Gear
33		Screw with Spring Washer, Pan Hd., Machine, 2.6 x 4mm, Z1
34		Bolt Washer, 2.6 x 6 x 0.5mm
35		Screw, Washer Hd., Tapping (B tight), 3 x 10mm, Z1
36	143-2-661T-68500	Loading Roller
37		Set Screw, Hex. Socket Hd., Machine (Dented Point), 2.6 x 6mm, CP
38	4-527V-00900	Loading Motor
39		Screw, Pan Hd., Tapping (B tight), 2.3 x 12mm, Z1
40	4-231V-81700	Unloading End Switch
41	143-2-741T-39000	Operation Lever, Unloading End Switch
42	143-2-741T-38601	Lock Lever, Operation EJECT
43	143-2-851T-61200	Spring Coil, Operation Unloading End Switch
44	143-2-851T-60100	Spring Coil, EJECT Lock Lever
45	143-2-564T-03300	Square Belt, Loading Belt
46	141-2-453T-31701	Poly. Washer, 4 x 8 x 0.5mm
47	141-2-453T-30302	Poly. Washer, 3 x 5.4 x 0.5mm
48	141-2-453T-30200	Poly. Washer, 2.6 x 4.7 x 0.13mm
49	141-2-453T-30201	Poly. Washer, 2.6 x 4.7 x 0.25mm
50		BL Ceramic Capacitor, 0.1mfd (M), 50V
51	143-2-530T-00200	Guide, Loading Ring
52		Screw, Pan Hd., Tapping (Sharp Point), 3 x 8mm, Z1
53		Screw, Pan Hd., Tapping, 3 x 8mm, Z1
54	143-2-352T-08300	Spacer, Unloading End Switch

NOTE: Parts order must contain Model Number, Part Number and Description.



ELECTRICAL PARTS

NOTE:

* Materials of Capacitors are abbreviated as follows;

Elect.,	Electrolytic Capacitor
NP. Elect.,	Non-Polarized Electrolytic
Mylar	Mylar Film Capacitor
Polypro	Polypropylene Capacitor
M. Polypro	Metallized Polypropylene Capacitor
TF	Thin Film Capacitor

* Tolerance of Capacitor are noted with follow symbols;

A	+50−10%	M	±20%
G	±2%	N	±30%
J	±5%	P	+100−0%
K	±10%	Z	+80−20%

* All resistors are of carbon type, ±5%, 1/4 watt unless otherwise noted.

(1) VD-1 PCB. ELECTRICAL PARTS

Schematic Location	Parts No.	Description
		*VIDEO CIRCUIT ... Location No. 1001 ~
DL1001	4-284V-13100	Delay Line
DL1002	4-284V-13900	Delay Line
or	4-284V-15100	Delay Line
X1001	4-225V-18700	Crystal, 3.579545MHz
or	4-225V-18750	Crystal, 3.579545MHz
F1001	4-228V-15500	LC Pack
F1002	4-228V-13100	LC Pack
or	4-228V-15100	LC Pack
RY1001	4-232V-15400	Relay
		(VARIABLE RESISTORS)
VR1001	4-222V-65902	1K ohms
or	4-222V-61705	1K ohms
VR1002	4-222V-65902	1K ohms
or	4-222V-61705	1K ohms
VR1003	4-222V-65905	5K ohms
or	4-222V-61707	5K ohms
VR1004	4-222V-65907	20K ohms
or	4-222V-61709	20K ohms
VR1005	4-222V-65905	5K ohms
or	4-222V-61707	5K ohms
VR1006	4-222V-65908	50K ohms
or	4-222V-61710	50K ohms
VR1007	4-222V-65902	1K ohms
or	4-222V-61705	1K ohms
VR1008	4-222V-65903	2K ohms
or	4-222V-61706	2K ohms
VR1009	4-222V-65907	20K ohms
or	4-222V-61709	20K ohms
VR1010	4-222V-65905	5K ohms
or	4-222V-61707	5K ohms
VR1011	4-222V-65902	1K ohms
or	4-222V-61705	1K ohms
VR1012	4-222V-62811	4.7K ohms
VR1013	4-222V-62807	1K ohms
VR1014	4-222V-62813	10K ohms
VR1015	4-222V-62809	2.2K ohms
VR1016	4-222V-62809	2.2K ohms
VR1017	4-222V-65905	5K ohms
or	4-222V-61707	5K ohms
		(COILS)
L1001	4-253V-97609	HF Choke, 15μH
L1002	4-253V-97607	HF Choke, 10μH
L1003	4-253V-97606	HF Choke, 8.2μH
L1004	4-253V-97613	HF Choke, 33μH
L1005	4-253V-97618	HF Choke, 82μH
L1006	4-253V-97133	HF Choke, 470μH
L1007	4-253V-97303	HF Choke, 8.2mH
L1008	4-253V-97617	HF Choke, 68μH
L1009	4-253V-97608	HF Choke, 15μH
L1010	4-253V-97621	HF Choke, 150μH
L1011	4-253V-97615	HF Choke, 47μH
L1012	4-253V-97613	HF Choke, 33μH
L1013	4-253V-97618	HF Choke, 82μH
L1014	4-253V-97606	HF Choke, 8.2μH
L1015	4-253V-97606	HF Choke, 8.2μH
L1016	4-253V-97622	HF Choke, 180μH
L1017	4-253V-97623	HF Choke, 220μH
L1018	4-253V-97622	HF Choke, 180μH
L1019	4-253V-86345	HF Choke, 1mH
or	4-253V-88737	HF Choke, 1mH
L1020	4-253V-97113	HF Choke, 10μH
L1021	4-253V-97620	HF Choke, 120μH
L1023	4-253V-97129	HF Choke, 220μH
L1024	4-253V-97114	HF Choke, 12μH
L1025	4-253V-97402	HF Choke, 6.8mH
L1026	4-253V-97402	HF Choke, 6.8mH
L1027	4-253V-97114	HF Choke, 12μH
L1028	4-253V-97506	HF Choke, 0.56μH
L1029	4-253V-97506	HF Choke, 0.56μH
L1030	4-253V-89121	HF Choke, 47μH
or	4-253V-88621	HF Choke, 47μH
L1031	4-253V-97123	HF Choke, 68μH
		(COIL TRANSFORMERS)
T1001	4-256V-24500	IF. Trans.
T1002	4-259V-19900	HF Coil Trans.
T1003	4-256V-24200	IF. Trans.
or	4-256V-24250	IF. Trans.
T1004	4-256V-24400	IF. Trans.
or	4-256V-24450	IF. Trans.
T1005	4-256V-24300	IF. Trans.
or	4-256V-24350	IF. Trans.
T1006	4-259V-18700	HF Coil Trans.
or	4-259V-18750	HF Coil Trans.
T1007	4-259V-18800	HF Coil Trans.
or	4-259V-18850	HF Coil Trans.
T1008	4-259V-18900	HF Coil Trans.
or	4-259V-18950	HF Coil Trans.
T1009	4-258V-13800	OSC Coil Trans.
or	4-258V-13850	OSC Coil Trans.
T1010	4-288V-10800	Step-up Trans.
T1011	4-288V-10800	Step-up Trans.

Schematic Location	Parts No.	Description
T1012	4-256V-24100	IF. Trans.
or	4-256V-24150	IF. Trans.
		(IC's & TRANSISTORS)
IC1001		IC, LA7000
IC1002		IC, LA7009
IC1003		IC, LA7005
IC1004		IC, LA7003
IC1005		IC, LA7007
IC1006		IC, LA7013
IC1007		IC, LC4001BP or TC4001BP or TP4001BP
IC1008		IC, LA7016
Q1009		2SC536E or F or 2SC1815GR or Y
Q1010		2SC536E or F or 2SC1815GR or Y
Q1011		2SC536E or F or 2SC1815GR or Y
Q1012		2SC536E or F or 2SC1815GR or Y
Q1013		2SB564K or L
Q1014		2SC536E or F or 2SC1815GR or Y
Q1016		2SC930E or F
Q1017		2SC536E or F or 2SC1815GR or Y
Q1018		2SC536E or F or 2SC1815GR or Y
Q1019		2SC536E or F or 2SC1815GR or Y
Q1020		2SA564Q or R or 2SA608E or F
Q1021		2SC536E or F or 2SC1815GR or Y
Q1022		2SA564Q or R or 2SA608E or F
Q1023		2SC536E or F or 2SC1815GR or Y
Q1024		2SC536E or F or 2SC1815GR or Y
Q1025		2SC536E or F or 2SC1815GR or Y
Q1026		2SA838B or C
Q1027		2SA564Q or R or 2SA608E or F
Q1028		2SC1815GR or Y
Q1029		2SC930E or F
Q1030		2SK152-1 or 2 or 3
Q1031		2SK152-1 or 2 or 3
Q1032		2SC536E or F or 2SC1815GR or Y
Q1033		2SC536E or F or 2SC1815GR or Y
Q1037		2SC536E or F or 2SC1815GR or Y
		(DIODES)
D1001		1S1555 or 1SS133 or DS442
D1002		1S1555 or 1SS133 or DS442
D1003		1S1555 or 1SS133 or DS442
D1004		1S1555 or 1SS133 or DS442
D1005		1S1555 or 1SS133 or DS442
D1007		1S1555 or 1SS133 or DS442
D1009		1S1555 or 1SS133 or DS442
D1010		1S1555 or 1SS133 or DS442
D1011		1S1555 or 1SS133 or DS442
D1012		1S1555 or 1SS133 or DS442
D1013		1S1555 or 1SS133 or DS442
D1014		1S1555 or 1SS133 or DS442
D1015		1S1555 or 1SS133 or DS442
D1016		1S1555 or 1SS133 or DS442
D1017		1S1555 or 1SS133 or DS442
D1018		1S1555 or 1SS133 or DS442
D1019		1S1555 or 1SS133 or DS442
D1020		1S1555 or 1SS133 or DS442
		(CAPACITORS)
C1001		Elect., 100mfd (M), 10V
C1002		Elect., 47mfd (M), 10V
C1003		Elect., 33mfd (M), 10V
C1004		BL Ceramic, 0.047mfd (K), 25V
C1005		Elect., 10mfd (M), 10V
C1006		Elect., 33mfd (M), 10V

Schematic Location	Parts No.	Description
C1007	CA+-1-6224-MV++L	Aluminium (Super Small), 0.22mfd (M), 16V
C1008		Ceramic, 330pF (J), 50V
C1009		Ceramic, 680 (J), 50V
C1010		Ceramic, 180pF (J), 50V
C1011		Ceramic, 270pF (J), 50V
C1012		Ceramic, 680pF (J), 50V
C1013		Elect., 100mfd (M), 10V
C1014		Ceramic, 100pF (J), 50V
C1015		BL Ceramic, 1000pF (K), 50V
C1016		Elect., 47mfd (M), 10V
C1017		Ceramic, 200pF (J), 50V
C1018		Ceramic, 33pF (J), 50V
C1019		Ceramic, 150pF (J), 50V
C1020		BL Ceramic, 2200pF (K), 50V
C1021		Ceramic, 560pF (J), 50V
C1022		BL Ceramic, 0.01mfd (K), 25V
or		BL Ceramic, 0.01mfd (N), 25V
C1023		Elect., 10mfd (M), 10V
C1024		Ceramic, 120pF (J), 50V
C1025		Ceramic, 820pF (J), 50V
C1026		Elect., 22mfd (M), 10V
C1027		BL Ceramic, 0.01mfd (K), 25V
or		BL Ceramic, 0.01mfd (N), 25V
C1028		Ceramic, 100pF (J), 50V
C1029		BL Ceramic, 0.01mfd (K), 25V
or		BL Ceramic, 0.01mfd (N), 25V
C1030		Elect., 3.3mfd (M), 25V
C1031		Elect., 100mfd (M), 10V
C1032		BL Ceramic, 0.01mfd (K), 25V
or		BL Ceramic, 100mfd (M), 10V
C1033		Elect., 100mfd (M), 10V
C1034		Elect., 4.7mfd (M), 25V
C1035		Ceramic, 150pF (J), 50V, CH
C1036		Ceramic, 390pF (J), 50V
C1037		Ceramic, 100pF (J), 50V
C1038		BL Ceramic, 0.015mfd (K), 25V
C1039		Elect., 0.47mfd (M), 25V
C1040		BL Ceramic, 6800pF (K), 25V
C1041		BL Ceramic, 4700pF (K), 25V
C1042		BL Ceramic, 1000pF (K), 50V
C1043		BL Ceramic, 1500pF (K), 50V
C1044		Ceramic, 680pF (J), 50V
C1045		Ceramic, 680pF (J), 50V
C1046		Elect., 10mfd (M), 10V
C1047		Elect., 10mfd (M), 10V
C1048		BL Ceramic, 0.01mfd (K), 25V
C1049		Elect., 100mfd (M), 10V
C1050		Elect., 100mfd (M), 10V
C1051		BL Ceramic, 0.022mfd (N), 16V
C1052		BL Ceramic, 0.01mfd (K), 25V
or		BL Ceramic, 0.01mfd (N), 25V
C1053		Ceramic, 180pF (J), 50V
C1054		Elect., 100mfd (M), 10V
C1055		Ceramic, 470pF (J), 50V
C1056		Ceramic, 180pF (J), 50V
C1057		BL Ceramic, 1800pF (K), 50V
C1058		BL Ceramic, 1000pF (K), 50V
C1059		Elect., 220mfd (M), 10V
C1060		Ceramic, 220pF (J), 50V
C1061		Ceramic, 22pF (J), 50V
C1063		Ceramic, 75pF (J), 50V
C1064		Ceramic, 33pF (J), 50V
C1065		Ceramic, 18pF (J), 50V
C1066		Ceramic, 82pF (J), 50V

Schematic Location	Parts No.	Description
C1067		BL Ceramic, 0.01mfd (K), 25V
or		BL Ceramic, 0.01mfd (N), 25V
C1068		Ceramic, 22pF (J), 50V
C1069		BL Ceramic, 0.01mfd (K), 25V
or		BL Ceramic, 0.01mfd (N), 25V
C1070		BL Ceramic, 0.01mfd (K), 25V
or		BL Ceramic, 0.01mfd (N), 25V
C1071		Ceramic, 820pF (J), 50V
C1072		BL Ceramic, 0.01mfd (K), 25V
or		BL Ceramic, 0.01mfd (N), 25V
C1073		Ceramic, 56pF (J), 50V
C1074		BL Ceramic, 0.01mfd (K), 25V
or		BL Ceramic, 0.01mfd (N), 25V
C1075		BL Ceramic, 0.01mfd (K), 25V
C1076		Ceramic, 330pF (J), 50V
C1077		BL Ceramic, 0.01mfd (K), 25V
or		BL Ceramic, 0.01mfd (N), 25V
C1078		Elect., 22mfd (M), 10V
C1079		Elect., 22mfd (M), 10V
C1080		Elect., 4.7mfd (M), 25V
C1081		Ceramic, 220pF (J), 50V
C1082	CA+-1-6224-MV++L	Aluminium (Super Small), 0.22mfd (M), 16V
C1083		Ceramic, 33pF (J), 50V
C1084		BL Ceramic, 0.01mfd (K), 25V
or		BL Ceramic, 0.01mfd (N), 25V
C1085		BL Ceramic, 0.01mfd (K), 25V
or		BL Ceramic, 0.01mfd (N), 25V
C1086		Ceramic, 68pF (J), 50V
C1087		Ceramic, 2pF (±0.25pF), 50V
C1088		Ceramic, 13pF (J), 50V, CH
C1089		BL Ceramic, 0.01mfd (K), 25V
or		BL Ceramic, 0.01mfd (N), 25V
C1090		BL Ceramic, 0.01mfd (K), 25V
or		BL Ceramic, 0.01mfd (N), 25V
C1091		BL Ceramic, 0.01mfd (K), 25V
C1092		Ceramic, 180pF (J), 50V
C1093		Elect., 4.7mfd (M), 25V
C1094		BL Ceramic, 0.022mfd (N), 16V
C1095		Elect., 1000mfd (M), 10V
C1096		Elect., 22mfd (M), 10V
C1098		Ceramic, 82pF (J), 50V
C1100		Elect., 100mfd (M), 10V
C1102		Ceramic, 100pF (J), 50V
C1103		Ceramic, 120pF (J), 50V
C1104		Elect., 100mfd (M), 10V
C1105		Elect., 1mfd (M), 25V
C1106		BL Ceramic, 2700pF (K), 50V
C1107		BL Ceramic, 1800pF (K), 50V
C1108		Ceramic, 51pF (J), 50V
C1109		Ceramic, 5pF (±0.25pF), 50V
C1110		Ceramic, 16pF (J), 50V
C1111		Ceramic, 16pF (J), 50V
C1112		Ceramic, 6pF (J), 50V
C1113		Elect., 100mfd (M), 10V
C1114		BL Ceramic, 0.022mfd (K), 25V
C1115		Elect., 47mfd (M), 10V
C1116		BL Ceramic, 0.015mfd (K), 25V
C1117		BL Ceramic, 4700pF (K), 25V
C1118		BL Ceramic, 0.01mfd (K), 25V
or		BL Ceramic, 0.01mfd (N), 25V
C1119		BL Ceramic, 0.01mfd (K), 25V
or		BL Ceramic, 0.01mfd (N), 25V
C1120		BL Ceramic, 0.01mfd (K), 25V
or		BL Ceramic, 0.01mfd (N), 25V

Schematic Location	Parts No.	Description
C1121		BL Ceramic, 0.01mfd (K), 25V
or		BL Ceramic, 0.01mfd (N), 25V
C1122		BL Ceramic, 0.022mfd (N), 16V
C1123		BL Ceramic, 0.022mfd (N), 16V
C1124		Ceramic, 330pF (J), 50V
C1125		Elect., 10mfd (M), 10V
C1126		BL Ceramic, 0.01mfd (K), 25V
or		BL Ceramic, 0.01mfd (N), 25V
C1127		Ceramic, 100pF (J), 50V
C1128		BL Ceramic, 0.01mfd (K), 25V
or		BL Ceramic, 0.01mfd (N), 25V
C1129		Elect., 47mfd (M), 10V
C1130		BL Ceramic, 0.022mfd (N), 16V
C1131		Ceramic, 36pF (J), 50V
C1132		Elect., 0.47mfd (M), 25V
C1133		BL Ceramic, 0.01mfd (K), 25V
or		BL Ceramic, 0.01mfd (N), 25V
C1134		Ceramic, 470pF (J), 50V
C1135		Ceramic, 100pF (J), 50V
C1137		BL Ceramic, 0.01mfd (K), 25V
C1138		Ceramic, 100pF (J), 50V
C1139		Ceramic, 100pF (J), 50V
C1140		Ceramic, 820pF (J), 50V
C1141		BL Ceramic, 0.047mfd (K), 25V
C1142		BL Ceramic, 0.01mfd (K), 25V
C1143		Ceramic, 56pF (J), 50V
C1144		Elect., 10mfd (M), 10V
C1145		Ceramic, 120pF (J), 50V
C1146		BL Ceramic, 4700pF (K), 25V
C1147		BL Ceramic, 0.022mfd (N), 16V
C1148		BL Ceramic, 0.01mfd (K), 25V
or		BL Ceramic, 0.01mfd (N), 25V
C1149		BL Ceramic, 0.022mfd (N), 16V
C1150		Elect., 10mfd (M), 10V
C1151		BL Ceramic, 0.022mfd (N), 16V
C1152		BL Ceramic, 0.022mfd (N), 16V
C1153		Elect., 10mfd (M), 10V
C1154		BL Ceramic, 0.01mfd (K), 25V
or		BL Ceramic, 0.01mfd (N), 25V
C1155		Ceramic, 47pF (J), 50V
C1156		BL Ceramic, 0.01mfd (K), 25V
or		BL Ceramic, 0.01mfd (N), 25V
C1161		Ceramic, 68pF (J), 50V
C1162		BL Ceramic, 0.047mfd (K), 25V
C1164		Ceramic, 3pF (±0.25pF), 50V
C1165		Ceramic, 15pF (J), 50V
C1166		Elect., 220pF (M), 10V
		(RESISTORS)
R1001		1K ohms
R1002		1K ohms
R1003		56K ohms
R1004		680 ohms
R1005		330 ohms
R1006		20K ohms
R1007		5.6K ohms
R1008		1.2K ohms
R1009		560 ohms
R1010		680 ohms
R1011		680 ohms
R1012		680 ohms
R1013		680 ohms
R1014		130 ohms
R1015		36K ohms
R1016		510K ohms

Schematic Location	Parts No.	Description
R1017		1K ohms
R1018		10K ohms
R1019		470 ohms
R1020		270 ohms
R1021		47K ohms
R1022		10K ohms
R1023		10K ohms
R1024		10K ohms
R1025		22K ohms
R1026		3K ohms
R1028		1.2K ohms
R1029		39K ohms
R1030		510 ohms
R1031		1K ohms
R1032		15K ohms
R1033		1K ohms
R1034		10K ohms
R1035		150 ohms
R1036		150 ohms
R1037		10K ohms
R1038		360 ohms
R1039		1K ohms
R1040		1K ohms
R1041		4.7K ohms
R1042		6.8K ohms
R1043		270 ohms
R1044		2K ohms
R1045		15K ohms
R1046		120 ohms
R1047		75 ohms
R1048		10K ohms
R1049		3.6K ohms
R1050		33K ohms
R1051		33K ohms
R1052		120 ohms
R1053		200 ohms
R1054		22K ohms
R1055		22K ohms
R1056		10K ohms
R1057		5.6K ohms
R1058		1.6K ohms
R1059		18K ohms
R1060		2K ohms
R1061		1.2K ohms
R1062		47K ohms
R1063		82K ohms
R1064		39K ohms
R1065		15K ohms
R1066		3.3K ohms
R1067		6.8K ohms
R1068		10K ohms
R1069		5.6K ohms
R1070		2K ohms
R1071		1.2K ohms
R1072		4.3K ohms
R1073		270 ohms
R1074		1.3K ohms
R1075		1.8K ohms
R1076		620 ohms
R1077		1.6K ohms
R1078		820 ohms
R1079		4.3K ohms
R1080		1K ohms
R1081		620 ohms
R1082		750 ohms
R1083		1.2K ohms

Schematic Location	Parts No.	Description
R1084		820 ohms
R1085		3.3K ohms
R1086		3.3K ohms
R1088		5.6K ohms
R1089		5.1K ohms
R1090		3.6K ohms
R1091		3.6K ohms
R1092		2.2K ohms
R1093		1K ohms
R1094		1.2K ohms
R1095		100K ohms
R1096		1K ohms
R1097		1K ohms
R1098		10K ohms
R1099		10K ohms
R1100		3.3K ohms
R1101		2.2K ohms
R1102		1.5K ohms
R1103		15K ohms
R1104		22K ohms
R1105		5.1K ohms
R1106		470 ohms
R1107		2.7K ohms
R1108		39K ohms
R1109		2.7K ohms
R1110		20K ohms
R1111		8.2K ohms
R1112		2.2K ohms
R1113		43K ohms
R1114		10K ohms
R1115		1K ohms
R1116		68 ohms
R1117		680 ohms
R1118		240 ohms
R1119		820 ohms
R1120		1K ohms
R1121		820 ohms
R1124		6.2K ohms
R1125		1.8K ohms
R1127		560 ohms
R1128		560 ohms
R1133		1K ohms
R1134		13K ohms
R1135		9.1K ohms
R1136		680 ohms
R1137		47 ohms
R1138		470 ohms
R1139		5.6K ohms
R1140		5.6K ohms
R1141		100 ohms
R1142		3.3K ohms
R1143		3.3K ohms
R1144		560 ohms
R1145		30K ohms
R1146		2K ohms
R1147		15K ohms
R1148		220K ohms
R1149		6.8K ohms
R1150		1.5K ohms
R1151		5.6K ohms
R1152		1.5K ohms
R1153		22K ohms
R1154		47K ohms
R1155		100 ohms
R1156		1.3K ohms
R1157		18K ohms

Schematic Location	Parts No.	Description
R1158		15K ohms
R1159		390 ohms
R1160		390 ohms
R1161		5.6K ohms
R1163		100 ohms
R1164		47 ohms
R1165		100 ohms
R1166		47K ohms
R1167		4.7K ohms
R1168		5.6K ohms
R1169		1K ohms
R1170		620 ohms
R1172		2.2K ohms
R1173		4.7K ohms
R1174		22K ohms
R1175	RF/-+-48R2-JTFPR	Non Flammable, 8.2 ohms
R1176		1.2K ohms
R1177	RF/-+-48R3-JTFPR	Non Flammable, 8.2 ohms
R1178		6.2K ohms
R1179		22K ohms
R1180		240 ohms
R1181		82K ohms
R1182		10K ohms
R1183		1K ohms
R1184		1.3K ohms
R1185		620 ohms
R1186		620 ohms
R1187	RF/-+-4820-JTFPR	Non Flammable, 82 ohms
R1188		100 ohms
R1189	RF/-+-4390-JTFPR	Non Flammable, 39 ohms
R1190		10K ohms
R1191		56K ohms
R1192		560 ohms
R1193		2.2K ohms
R1194		2.2K ohms
R1195		1K ohms
R1196		1K ohms
R1197		1K ohms
R1198		1K ohms
R1199		560K ohms
R1200		470 ohms
R1201		1K ohms
R1202		1K ohms
R1203		220 ohms
R1204		620 ohms
R1205		3.3K ohms
R1206		390 ohms
R1207		390 ohms
R1208		390 ohms
R1209		620 ohms
R1210		10K ohms
R1211		3.3K ohms
R1212	RF/-+-48R2-JTFPR	Non Flammable, 8.2 ohms
R1213		100 ohms
R1214		47K ohms
R1215		47K ohms
R1216		10K ohms
R1217		10K ohms
R1218		7.5 ohms
R1219		390 ohms
R1220		3.3 ohms
R1221		10K ohms
R1222		10K ohms
R1240		2.2K ohms
R1241		5.6K ohms
R1250		220 ohms

Schematic Location	Parts No.	Description
		***AUDIO CIRCUIT ... Location No. 2001 ~**
		(VARIABLE RESISTORS)
VR2002	4-222V-65906	10K ohms
VR2003	4-222V-65910	200K ohms
VR2004	4-222V-65906	10K ohms
		(COIL TRANSFORMER & COILS)
T2001	4-258V-14740	OSC Coil Trans.
L2001	4-253V-95600	HF Choke, 27mH
L2002	4-253V-96900	HF Choke, 7mH
L2003	4-253V-95800	HF Choke, 27mH
L2004	4-253V-84110	HF Choke
		(IC'S & TRANSISTORS)
IC2001		IC, BA5102
Q2002		2SD1011R or S or T
Q2003		2SD1011R or S or T
Q2004		2SC945P or Q
Q2005		2SA1016F or G
Q2006		2SC2603F
Q2007		2SC2603F
Q2009		2SC2603F
Q2010		2SC2603F
Q2011		2SD438E or F
		(DIODES)
D2001		1S2473
D2002		1S2473
D2003		1S2473
D2004		1S2473
		(CAPACITORS)
C2001		Elect., 2.2mfd (M), 50V
C2002		Elect., 47mfd (M), 6.3V
C2003		Elect., 22mfd (M), 10V
C2005		Elect., 100mfd (M), 10V
C2006		Elect., 22mfd (M), 10V
C2007		Elect., 4.7mfd (M), 25V
C2008		Elect., 4.7mfd (M), 25V
C2009		Elect., 0.47mfd (M), 50V
C2010		BL Ceramic, 0.039mfd (K), 25V
C2011		BL Ceramic, 0.027mfd (K), 25V
C2013		Elect., 4.7mfd (M), 25V
C2014		Elect., 47mfd (M), 10V
C2015		Ceramic, 220pF (K), 50V
C2016		Elect., 47mfd (M), 6.3V
C2017		Elect., 100mfd (M), 10V
C2018		Elect., 0.47mfd (M); 50V
C2019		BL Ceramic, 4700pF (K), 25V
C2020		Elect., 3.3mfd (M), 50V
C2021		BL Ceramic, 0.012mfd (K), 25V
C2022		Elect., 0.22mfd (M), 50V
C2023		Elect., 2.2mfd (M), 50V
C2024		Elect., 10mfd (M), 16V
C2025		Ceramic, 200pF (K), 50V
C2026		Ceramic, 1200pF (K), 50V
C2027		Ceramic, 220pF (K), 50V
C2028		Polypro., 0.018mfd (K), 200V
C2029		Elect., 100mfd (M), 16V
C2030		BL Ceramic, 0.033mfd (K), 25V
C2031		BL Ceramic, 0.01mfd (K), 25V
C2032		BL Ceramic, 0.01mfd (K), 25V
C2033		BL Ceramic, 0.01mfd (K), 25V
C2034		Elect., 33mfd (M), 10V

(2) SY-1 PCB. ELECTRICAL PARTS
(SY-4 PCB. ... Refer to page 20)

Schematic Location	Parts No.	Description
		(RESISTORS)
R2001		47K ohms
R2002		390 ohms
R2003		2.2K ohms
R2004		18K ohms
R2005		33K ohms
R2006		2.2M ohms
R2007		47K ohms
R2008		1K ohms
R2009		5.6K ohms
R2010		3.3K ohms
R2011		470 ohms
R2012		10K ohms
R2013		47K ohms
R2014		2.2K ohms
R2015		10K ohms
R2017		10K ohms
R2018		100K ohms
R2020		100K ohms
R2021		56K ohms
R2022		15K ohms
R2023		4.7K ohms
R2024		560 ohms
R2025		2.2K ohms
R2026		120K ohms
R2027		220 ohms
R2028		180 ohms
R2029		47K ohms
R2030		10K ohms
R2031		10K ohms
R2032		10K ohms
R2033		2.2K ohms
R2034		2.2K ohms
R2035		330 ohms
R2036		10K ohms
R2037		10 ohms
R2038		10K ohms
R2039		10K ohms
R2040		3.3K ohms
R2041		15K ohms
R2042		1 ohm

Schematic Location	Parts No.	Description
	143-2-368T-05900	Heat Sink, IC.
CF3001	4-953V-03400	Filter
RA3001	4-957V-10304	R-pack, 10K ohms x 4
or	4-957V-10354	R-pack, 10K ohms x 4
RA3002	4-957V-10308	R-pack, 10K ohms x 8
or	4-957V-10358	R-pack, 10K ohms x 8
RA3003	4-957V-10311	R-pack, 10K ohms x 11
or	4-957V-10361	R-pack, 10K ohms x 11
RA3004	4-957V-10312	R-pack, 10K ohms x 12
or	4-957V-10362	R-pack, 10K ohms x 12
RA3005	4-957V-10307	R-pack, 10K ohms x 7
or	4-957V-10357	R-pack, 10K ohms x 7
		(IC's & TRANSISTORS)
IC3001		IC, LM8402A095
IC3002		IC, LC7800
IC3003		IC, LA7011
IC3004		IC, LA2400
IC3005		IC, BA6209
IC3006		IC, BA6209
IC3007		IC, LC4001B or TC4001BP or μPD4001BC
IC3008		IC, LC4069UB or TC4069UBP or μPD4069UBC
IC3101		IC, BA222
Q3009		2SD471KA or LA
Q3010		2SC536E or F or 2SC1815GR or Y
Q3011		2SC536E or F or 2SC1815GR or Y
Q3012		2SC536E or F or 2SC1815GR or Y
Q3013		2SC536E or F or 2SC1815GR or Y
Q3015		2SA608E or F or 2SA937Q or R
Q3016		2SD325E or F
Q3017		2SC536E or F or 2SC1815GR or Y
Q3019		2SA608E or F or 2SA937Q or R
Q3020		2SC536E or 2SC1740Q or 2SC2021Q
Q3102		2SC536E or F or 2SC1815GR or Y
Q3103		2SA608E or F or 2SA937Q or R
Q3150		2SC536E or F or 2SC1815GR or Y
		(DIODES)
D3001		Zener, GZA5.6Y
D3002		1S1555 or 1S2473 or DS442
D3003		1S1555 or 1S2473 or DS442
D3004		1S1555 or 1S2473 or DS442
D3005		1S1555 or 1S2473 or DS442
D3006		Zener, GZA7.5Y
D3009		1S1555 or 1S2473 or DS442
D3012		1S1555 or 1S2473 or DS442
D3014		1S1555 or 1S2473 or DS442
D3015		1S1555 or 1S2473 or DS442
D3019		1S1555 or 1S2473 or DS442
D3020		1S1555 or 1S2473 or DS442
D3023		1S1555 or 1S2473 or DS442
D3024		1S1555 or 1S2473 or 1SS133 or DS442
D3025		1S1555 or 1S2473 or 1SS133 or DS442
D3026		1S1555 or 1S2473 or 1SS133 or DS442
D3101		1S1555 or 1S2473 or DS442
D3102		1S1555 or 1S2473 or DS442
D3103		1S1555 or 1S2473 or DS442
D3104		1S1555 or 1S2473 or DS442
D3150		Zener, GZA4.7Z or GZA5.1X

Schematic Location	Parts No.	Description
D3151		Zener, GZA2.4Z or GZA2.7X
D3152		1S1555 or 1S2473 or DS442
D3153		1S1555 or 1S2473 or DS442
		(CAPACITORS)
C3001		Elect., 100mfd (M), 16V
C3002		BL Ceramic, 0.1mfd (K), 25V
C3004		BL Ceramic, 0.1mfd (K), 25V
C3005		BL Ceramic, 0.1mfd (K), 25V
C3006		Elect., 3.3mfd (M), 16V
C3008		BL Ceramic, 0.01mfd (K), 25V
C3010		Elect., 4.7mfd (M), 25V
C3011		Ceramic, 220pF (K), 50V
C3012		Ceramic, 220pF (K), 50V
C3013		BL Ceramic, 0.01mfd (K), 25V
C3014		BL Ceramic, 0.01mfd (K), 25V
C3016		Elect., 1mfd (M), 16V
C3017	CW+-2-5106-MVNPS	NP. Elect (Super Small), 10mfd (M), 25V
C3018		Ceramic, 1000pF (K), 50V
C3101		Aluminium, 0.22mfd (K), 25V
		(RESISTORS)
R3011		470 ohms
R3012		100 ohms
R3013		100 ohms
R3015		220K ohms
R3016		180K ohms
R3017		18K ohms
R3018		680 ohms
R3019		22K ohms
R3020		10K ohms
R3021		100K ohms
R3023		10K ohms
R3024		100K ohms
R3025		1K ohms
R3028		1K ohms
R3029		1K ohms
R3030		1K ohms
R3031		1K ohms
R3032		1K ohms
R3033		1K ohms
R3034		1K ohms
R3035		1K ohms
R3036		1K ohms
R3037		100 ohms
R3038		47K ohms
R3039		47K ohms
R3040		47K ohms
R3041		47K ohms
R3042		22K ohms
R3043		2.2K ohms
R3044		1K ohms
R3045		1M ohms
R3046		22K ohms
R3047		33K ohms
R3048		33K ohms
R3049	RF/-+42R2-JPFPR	Non Flammable, 2.2 ohms
R3050		33K ohms
R3051		33K ohms
R3053		22K ohms
R3054		1K ohms
R3057		2.2K ohms
R3059		22K ohms
R3060		100K ohms
R3061		100K ohms

Schematic Location	Parts No.	Description
R3064		47K ohms
R3065		150K ohms
R3069		270K ohms
R3070		18K ohms
R3101		100K ohms
R3102		10K ohms
R3103		82K ohms
R3104		2.7M ohms
R3105		4.7K ohms
R3106		4.7K ohms
R3107		4.7K ohms
R3150		10K ohms
R3151		10K ohms

(3) SY-2 PCB. ELECTRICAL PARTS

Schematic Location	Parts No.	Description
	143-2-374T-02100	Panel, Operation LED's
	143-2-681T-13100	Sleeve, 2III LED (D3311)
DTN3301	4-985V-00100	Digital Display
or	4-985V-00110	Digital Display
	143-2-681T-12500	Sleeve, Digital Display
CF3301	4-953V-06100	Filter
		(SWITCHES)
SW3301	4-231V-20500	Slide Switch, TAPE SPEED Select
SW3302	4-231V-66800	Push Switch, POWER ON/OFF/ TIMER
SW3304	4-231V-66650	Push Switch, MINUTE/RESET
SW3305	4-231V-66650	Push Switch, HOUR/MEMORY
SW3306	4-231V-66650	Push Switch, REC STOP
SW3307	4-231V-66650	Push Switch, REC START
SW3308	4-231V-66650	Push Switch, CLOCK SET
SW3309	4-231V-66650	Push Switch, CLOCK/COUNTER
SW3311	4-231V-66700	Push Switch, PAUSE/STILL
SW3312	4-231V-66700	Push Switch, STOP
SW3313	4-231V-66700	Push Switch, F FWD/FWD-SEARCH
SW3314	4-231V-66700	Push Switch, PLAY
SW3315	4-231V-66700	Push Switch, REW/REV-SEARCH
SW3316	4-231V-66700	Push Switch, REC
SW3317	4-231V-66650	Push Switch, REC DAY
SW3318	4-231V-66650	Push Switch, DAY
		(IC's & TRANSISTORS)
IC3301		IC, MP1537SL or MP1538SL
Q3302		2SC536E
Q3303		2SC536E
Q3304		2SA608E
Q3305		2SC536E
Q3306		2SA608E
Q3307		2SC536E
Q3308		2SC536E
Q3309		2SC536E
		(DIODES)
D3301		DS442
D3302		DS442
D3303		DS442

Schematic Location	Parts No.	Description
D3305		DS442
D3306		DS442
D3307		DS442
D3308		DS442
D3309		Zener, GZA7.5Y
D3310		DS442
D3311		LED, PR5704S (RED ... ▯III)
D3312		LED, PR5704S (RED ... PAUSE/STILL)
D3313		LED, PR5704S (RED ... F FWD/FWD.SEARCH)
D3314		LED, PR5704S (RED ... PLAY)
D3315		LED, PR5704S (RED ... REW/REV.SEARCH)
D3316		LED, PR5704S (RED ... REC)
D3317		DS442
D3318		LED, AR2432B (RED ... DEW)
D3319		DS442
D3320		DS442
D3321		LED, PR5532B (RED ... POWER)
D3322		DS442
D3323		DS442
D3324		LED, PR5532B (RED ... TIMER)
D3325		DS442
D3326		DS442
		(CAPACITORS)
C3301		Ceramic, 150pF (K), 50V
C3302		Ceramic, 47pF (K), 50V
C3303		BL Ceramic, 0.022mfd (N), 16V
C3304		Elect., 1mfd (M), 25V
C3305		BL Ceramic, 0.022mfd (N), 16V
C3306		Mylar, 0.082mfd (M), 50V
C3307		Ceramic, 1000pF (J), 50V
C3308		Elect., 4.7mfd (M), 16V
		(RESISTORS)
R3301		560 ohms
R3302		56K ohms
R3303		3.3K ohms
R3304		2.2K ohms
R3305		2.2K ohms
R3306		10K ohms
R3307		1K ohms
R3308		10K ohms
R3309		2.2K ohms
R3310		10K ohms
R3311		33K ohms
R3312		33K ohms
R3314		1K ohms
R3315		33K ohms
R3317		1K ohms
R3318		10K ohms
R3319		33K ohms
R3320		10K ohms
R3321		33K ohms
R3322		33K ohms
R3323		33K ohms
R3324		10K ohms
R3325		2.2K ohms
R3327		100K ohms
R3328		33K ohms
R3331		1K ohms
R3332		1K ohms
R3333		1K ohms
R3334		1K ohms

Schematic Location	Parts No.	Description
R3335		1K ohms
R3336		1K ohms
R3337		33K ohms
R3338		100K ohms
R3339		33K ohms
R3341		1K ohms
R3342		2.2K ohms
R3343		33K ohms
R3344		100K ohms

(4) SV-1 PCB. ELECTRICAL PARTS

Schematic Location	Parts No.	Description
		(VARIABLE RESISTORS)
VR4001	4-222V-62611	200K ohms
VR4002	4-222V-62611	200K ohms
VR4003	4-222V-62612	500K ohms
VR4004	4-222V-62610	100K ohms
VR4005	4-222V-65415	200K ohms
VR4006	4-222V-65414	100K ohms
VR4007	4-222V-65414	100K ohms
		(IC's & TRANSISTORS)
IC4001		IC, BA858
IC4002		IC, BA6302
IC4003		IC, BA6302
IC4004		IC, LC7401
IC4005		IC, LA6358 or LM358P or NJM2904D or μPC358C
IC4006		IC, LA6358 or LM358P or NJM2904D or μPC358C or TA75358P
Q4007		2SA933Q or R or 2SA937Q or R
Q4008		2SA933Q or R or 2SA937Q or R
Q4009		2SC536E or F
Q4010		2SA933Q or R or 2SA937Q or R
Q4011		2SA933Q or R or 2SA937Q or R
Q4012		2SA933Q or R or 2SA937Q or R
		(DIODES)
D4003		1S1555 or 1S2473 or DS442
D4004		1S1555 or 1S2473 or DS442
D4005		1S1555 or 1S2473 or DS442
D4006		1S1555 or 1S2473 or DS442
D4007		1S1555 or 1S2473 or DS442
D4008		1S1555 or 1S2473 or DS442
D4009		1S1555 or 1S2473 or DS442
D4010		1S1555 or 1S2473 or DS442
D4011		1S1555 or 1S2473 or DS442
D4012		1S1555 or 1S2473 or DS442
D4013		1S1555 or 1S2473 or DS442
		(CAPACITORS)
C4001		Elect., 220mfd (M), 16V
C4002		Mylar, 0.068mfd (K), 50V
C4003		Mylar, 0.047mfd (K), 50V
C4004		Mylar, 1500pF (K), 50V
C4006		Aluminium, 0.22mfd (K), 16V
C4007		Aluminium, 0.1mfd (K), 16V

Schematic Location	Parts No.	Description
C4009		Elect., 220mfd (M), 6.3V
C4011		Elect., 33mfd (M), 16V
C4012		Mylar, 0.1mfd (J), 50V
C4013		Elect., 1mfd (M), 50V
C4015		Mylar, 2200pF (K), 50V
C4018		Mylar, 0.01mfd (K), 50V
C4019		Mylar, 0.01mfd (K), 50V
C4020		Mylar, 0.012mfd (J), 50V
C4021		Mylar, 0.047mfd (K), 50V
C4022		Mylar, 1000pF (K), 50V
C4023		Mylar, 1000pF (K), 50V
C4025		Elect., 1mfd (M), 50V
C4026		Mylar, 0.01mfd (K), 50V
C4027		Mylar, 0.01mfd (K), 50V
C4028		BL Ceramic, 0.033mfd (M), 25V
C4029		BL Ceramic, 0.1mfd (M), 25V
C4030		Ceramic, 220pF (K), 50V
C4031		BL Ceramic, 0.1mfd (M), 25V
C4033		Mylar, 0.047mfd (K), 50V
C4034	CN+-5-0683-KS++S	Polypro., 0.068mfd (K), 50V
C4035		Elect., 47mfd (M), 16V
C4036		NP, Elect., 1mfd (M), 50V
C4037		Elect., 3.3mfd (M), 10V
C4040		Elect., 10mfd (M), 16V
C4041		Mylar, 0.01mfd (K), 50V
C4042	CN+-5-0223-KS++S	Polypro., 0.022mfd (K), 50V
C4043		Elect., 4.7mfd (M), 25V
C4044		Elect., 3.3mfd (M), 25V
C4045		Mylar, 0.022mfd (K), 50V
C4046		Mylar, 0.068mfd (K), 50V
C4047		Mylar, 0.022mfd (K), 50V
C4048		Elect., 3.3mfd (M), 50V
C4049	CW+-2-5225-MRNPL	NP Elect., 2.2mfd (M), 50V
C4050		Mylar, 0.033mfd (K), 50V
C4051		BL Ceramic, 2200pF (M), 25V
C4052		BL Ceramic, 0.01mfd (M), 25V
C4053		Mylar, 2200pF (K), 50V
C4054		Mylar, 0.1mfd (K), 50V
C4060		Elect., 1mfd (M), 50V
		(RESISTORS)
R4001		82K ohms
R4002		1K ohms
R4003		330K ohms
R4004	RM/+-4225-FTKER	Metal Glaze, 2.2M ohms, ±1%
R4005		1.3K ohms
R4006		270K ohms
R4007		10K ohms
R4008		10K ohms
R4009		4.7K ohms
R4010		100K ohms
R4011		470K ohms
R4013		100K ohms
R4014		10K ohms
R4015		3.3K ohms
R4017		22K ohms
R4018		22K ohms
R4019		15K ohms
R4020		82K ohms
R4021		10K ohms
R4022		330K ohms
R4023		1K ohms
R4024		100K ohms
R4028		10K ohms
R4029		10K ohms
R4030		1K ohms

Schematic Location	Parts No.	Description
R4031		10K ohms
R4032		10K ohms
R4033		10K ohms
R4034		10K ohms
R4035		10K ohms
R4036		10K ohms
R4037		10K ohms
R4038		47K ohms
R4041		10K ohms
R4042		33K ohms
R4043		10K ohms
R4044	RM/+-4564-FTKER	Metal Glaze, 560K ohms, ±1%
R4045		10K ohms
R4046		47K ohms
R4047		100K ohms
R4049		10K ohms
R4051		100 ohms
R4052		100K ohms
R4053		6.8K ohms
R4055		100K ohms
R4057	RM/+-4394-FTKER	Metal Glaze, 390K ohms, ±1%
R4058		100K ohms
R4060	RM/+-4244-FTKER	Metal Glaze, 240K ohms, ±1%
R4061		10K ohms
R4062		10K ohms
R4063		100K ohms
R4067		10K ohms
R4068		10K ohms
R4069		100K ohms
R4070		75 ohms
R4071		160K ohms
R4072		4.7K ohms
R4073		100K ohms
R4074		10K ohms
R4079		220 ohms
R4080	RM/+-4104-FTKER	Metal Glaze, 100K ohms, ±1%
R4081		33K ohms
R4082		160K ohms
R4083		680 ohms
R4084		1K ohms
R4085		100K ohms
R4086		820K ohms
R4087		47K ohms
R4089		4.7K ohms
R4090		4.7K ohms
R4093		100K ohms
R4096		180K ohms
R4098		120K ohms
R4099		3.3M ohms

(5) SV-2 PCB. ELECTRICAL PARTS (CAPSTAN MOTOR)

Schematic Location	Parts No.	Description
IC4301		IC, KM7245P or TA7245P
D4301		Zener Diode, RD5.1EL1 or HZ5.0C2
		(CAPACITORS)
C4301		BL Ceramic, 0.047mfd (M), 16V
C4302		Elect., 22mfd (M), 16V
C4303		Elect., 4.7mfd (M), 16V

Schematic Location	Parts No.	Description
C4304		Elect., 4.7mfd (M), 16V
C4305		Elect., 4.7mfd (M), 16V
C4306		BL Ceramic, 0.022mfd (M), 16V
C4308		BL Ceramic, 0.047mfd (M), 16V
C4309		BL Ceramic, 0.047mfd (M), 16V
C4310		BL Ceramic, 0.047mfd (M), 16V
		(RESISTORS)
R4301	RF/-+-41R2-JPFPR	Non Flammable, 1.2 ohms
R4302		470K ohms
R4303		1.2K ohms
R4304		1.2K ohms
R4305		5.6K ohms
R4307		10K ohms

(6) SV-5 PCB. ELECTRICAL PARTS

Schematic Location	Parts No.	Description
VR4591	4-222V-17400	Tracking Control VR.
–	4-226V-98050	Printed Circuit Board, SV-5
R4591		Carbon Resistor, 10K ohms

(7) PW-1 PCB. ELECTRICAL PARTS

Schematic Location	Parts No.	Description
F5001	△ 4-234V-14300	Fuse, 1A
L5004	4-253V-88622	HF Choke, 56μH, ±5%
Q5002		Transistor, 2SC2274F
		(DIODES)
D5001	△	RO2Z or ERC04 02
D5002	△	RO2Z or ERC04 02
D5003	△	RO2Z or ERC04 02
D5004	△	RO2Z or ERC04 02
D5006	△	DS135C or D
D5007		DS135C or D
D5008		Zener, GZA6.2Y or XZ062
D5010		Zener, GZA5.6Y or XZ057
D5011		Zener, BZ300
D5012		Zener, BZ090
D5013		Zener, BZ100
D5014		Zener, BZ150
		(CAPACITORS)
C5002		Elect., 2200mfd (M), 35V
C5003		Elect., 100mfd (M), 100V
C5004		Elect., 22mfd (M), 100V
C5005		Elect., 47mfd (M), 35V
C5006		Elect., 100mfd (M), 16V
C5007		Elect., 100mfd (M), 16V

Schematic Location	Parts No.	Description
		(RESISTORS)
R5001 △	RS/-+-2335-KP+++	Solid, 3.3M ohms, ±10%, 1/2W
R5002		6.8K ohms
R5003		6.8K ohms
R5004		150 ohms
R5005		150 ohms
R5006		4.7K ohms
R5007	RM/-+-1102-JP+++	Metal Glaze, 1K ohms, 1W
R5008		1K ohms
R5009	RM+-+-2471-JPOS+	Metal Glaze, 470 ohms, 2W
R5010	RM+-+-2471-JPOS+	Metal Glaze, 470 ohms, 2W

(8) PW-2 PCB. ELECTRICAL PARTS

Schematic Location	Parts No.	Description
	143-2-368T-06000	Heat Sink
BC5001	4-471V-10200	Beads Core
BC5002	4-471V-10200	Beads Core
L5002	4-253V-97700	HF Choke,
	143-2-322T-27000	Shield Cover, HF Choke Coil
IC5001		IC, STK7216
		(CAPACITORS)
C5008		Elect., 1000mfd (M), 16V
C5009		Elect., 100mfd (M), 16V
C5010		Elect., 10mfd (M), 16V
C5011		Elect., 1000mfd (M), 16V
C5013		Elect., 22mfd (M), 16V
C5014		Ceramic, 1800pF (K), 50V
		(RESISTORS)
R5011 △		Metal Glaze, 6.8 ohms
R5012 △		Metal Glaze, 6.8 ohms
R5013 △		Metal Glaze, 6.8 ohms

(9) TN-1 PCB. ELECTRICAL PARTS (Tuner)

Schematic Location	Parts No.	Description
		(VARIABLE RESISTORS)
VR6101	4-222V-65806	10K ohms
VR6102	4-222V-65812	1M ohms
VR6103	4-222V-65806	10K ohms
		(FILTERS & COILS)
F6101	4-953V-02800	Filter
F6102	4-953V-02400	Filter
or	4-953V-06300	Filter
F6103	4-953V-02500	Filter
F6104	4-953V-01400	Filter
or	4-953V-06400	Filter
L6102	4-253V-85815	HF Choke, 15μH
L6103	4-253V-85813	HF Choke, 10μH
L6104	4-253V-85812	HF Choke, 8.2μH

CIRCUIT DIAGRAMS & PRINTED CIRCUIT BOARDS

VCR3900(U.S.A. & CANADA) VCR3900-II(U.S.A.)

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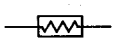


Non Flammable Resistor

Fusible Resistor

NOTES:

1. All resistance values in "OHMS" unless otherwise noted. (K=1,000 M=1,000,000)
2. All capacitance values in "μfd" unless otherwise noted. p=pico farad
3. All inductance values in "mH" unless otherwise noted. μ=micro henry
4. Marks indicated in each connector indicate the following color of wire.

B : Black	V : Violet	BR : Brown
R : Red	Y : Yellow	GR : Green
W : White	G : Gray	BL : Blue
P : Pink	LB: Light Blue	OR : Orange

PRODUCT SAFETY NOTICE

THE COMPONENTS DESIGNATED BY A SYMBOL (⚠) IN THIS SCHEMATIC DIAGRAM DESIGNATES COMPONENTS WHOSE VALUE ARE OF SPECIAL SIGNIFICANCE TO PRODUCT SAFETY. SHOULD ANY COMPONENT DESIGNATED BY A SYMBOL NEED TO BE REPLACED, USE ONLY THE PART DESIGNATED IN THE PARTS LIST. DO NOT DEVIATE FROM THE RESISTANCE, WATTAGE AND VOLTAGE RATINGS SHOWN.

Schematic Location	Parts No.	Description
		(COIL TRANSFORMERS)
T6101	4-256V-26700	IF. Trans.
T6102	4-256V-26800	IF. Trans.
		(IC's & TRANSISTORS)
IC6104		IC, TA7067AP
IC6105		IC, LA1365
Q6101		2SC2812
Q6102		2SC2812
Q6103		2SD545E or F
		(CAPACITORS)
C6101		Ceramic (Chip Type), 0.01mfd (J), 50V
C6102		Ceramic (Chip Type), 1200pF (K), 50V, CH
C6103 or		Elect., 1mfd (M), 25V Elect., 1mfd (M), 50V
C6104		Ceramic (Chip Type), 0.01mfd (J), 50V
C6105		Ceramic (Chip Type), 1200pF (K), 50V, CH
C6106		Ceramic (Chip Type), 0.01mfd (J), 50V
C6107 or		Elect., 1mfd (M), 25V Elect., 1mfd (M), 50V
C6108 or		Elect., 2.2mfd (M), 25V Elect., 2.2mfd (M), 50V
C6109		Elect., 47mfd (M), 25V
C6110		Ceramic (Chip Type), 56pF (J), 50V, CH
C6111		Ceramic (Chip Type), 7pF (±0.25pF), 50V, CH
C6112		Ceramic (Chip Type), 2pF (±0.25pF), 50V, CH
C6113		Ceramic (Chip Type), 68pF (J), 50V, RH
C6114		Ceramic (Chip Type), 2pF (±0.25pF), 50V, CH
C6115		Ceramic (Chip Type), 39pF (J), 50V
C6116		Elect., 470mfd (M), 10V
C6117		Ceramic (Chip Type), 0.01mfd (J), 50V
C6118 or		Elect., 0.47mfd (M), 25V Elect., 0.47mfd (M), 50V
C6119		Ceramic (Chip Type), 0.01mfd (J), 50V
C6120		Elect., 100mfd (M), 25V
C6121		Mylar, 8200pF (K), 50V
C6122		Elect., 4.7mfd (M), 25V
C6123		Ceramic (Chip Type), 39pF (J), 50V, CH
C6124		Ceramic (Chip Type), 1200pF (K), 50V, CH
C6125		Ceramic (Chip Type), 1200pF (K), 50V, CH
C6126		Ceramic (Chip Type), 1200pF (K), 50V, CH
C6127		Ceramic (Chip Type), 1200pF (K), 50V, CH
C6128		Ceramic (Chip Type), 1200pF (K), 50V, CH
C6129		Ceramic (Chip Type), 1200pF (K), 50V, CH

Schematic Location	Parts No.	Description
C6130		Ceramic (Chip Type), 1200pF (K), 50V, CH
C6131		Ceramic (Chip Type), 0.01mfd (J), 50V
C6132		Mylar, 0.047mfd (M), 50V
		(RESISTORS)
R6101		Chip Type, 1K ohms, 1/8W
R6102		Chip Type, 1K ohms, 1/8W
R6103		Chip Type, 820K ohms, 1/8W
R6104		Chip Type, 220 ohms, 1/8W
R6105		Chip Type, 1K ohms, 1/8W
R6106		Chip Type, 1K ohms, 1/8W
R6107		Chip Type, 100K ohms, 1/8W
R6108		Chip Type, 150K ohms, 1/8W
R6109		Chip Type, 1.5K ohms, 1/8W
R6110		Chip Type, 2.7K ohms, 1/8W
R6111		Chip Type, 1K ohms, 1/8W
R6112		Chip Type, 270 ohms, 1/8W
R6113		Chip Type, 12K ohms, 1/8W
R6114		Chip Type, 1.5K ohms, 1/8W
R6115		Chip Type, 1.5K ohms, 1/8W
R6116		Chip Type, 1K ohms, 1/8W
R6117		Chip Type, 33 ohms, 1/8W
R6118		Chip Type, 2.2K ohms, 1/8W
R6119		Chip Type, 1K ohms, 1/8W
R6120		Chip Type, 180 ohms, 1/8W
R6121		Chip Type, 100 ohms, 1/8W
R6122		Chip Type, 180 ohms, 1/8W

(10) TN-2 PCB. ELECTRICAL PARTS

Schematic Location	Parts No.	Description
	143-2-374T-02200	Bracket, Channel LED's
	143-2-681T-13000	Sleeve, TV/VCR LED
VR6201	4-222V-16500	Channel Pre-set VR.
or	4-222V-16800	Channel Pre-set VR.
		(SWITCHES)
SW6201	4-231V-66300	Channel Select Switch
SW6202	4-231V-65500	AFT Switch
SW6203	4-231V-65900	VCR/TV Select Switch
		(IC's & TRANSISTORS)
IC6205		IC, μPC574J
Q6201		2SC536KE
Q6202		2SA984E or 2SA562Y
Q6203		2SA984E or 2SA562Y
Q6204		2SC536KE
Q6206		2SK68AL or AM
		(DIODES)
D6201		LED, PR5704S (Red ... Channel Light)
D6202		LED, PR5704S (Red ... Channel Light)
D6203		LED, PR5704S (Red ... Channel Light)
D6204		LED, PR5704S (Red ... Channel Light)

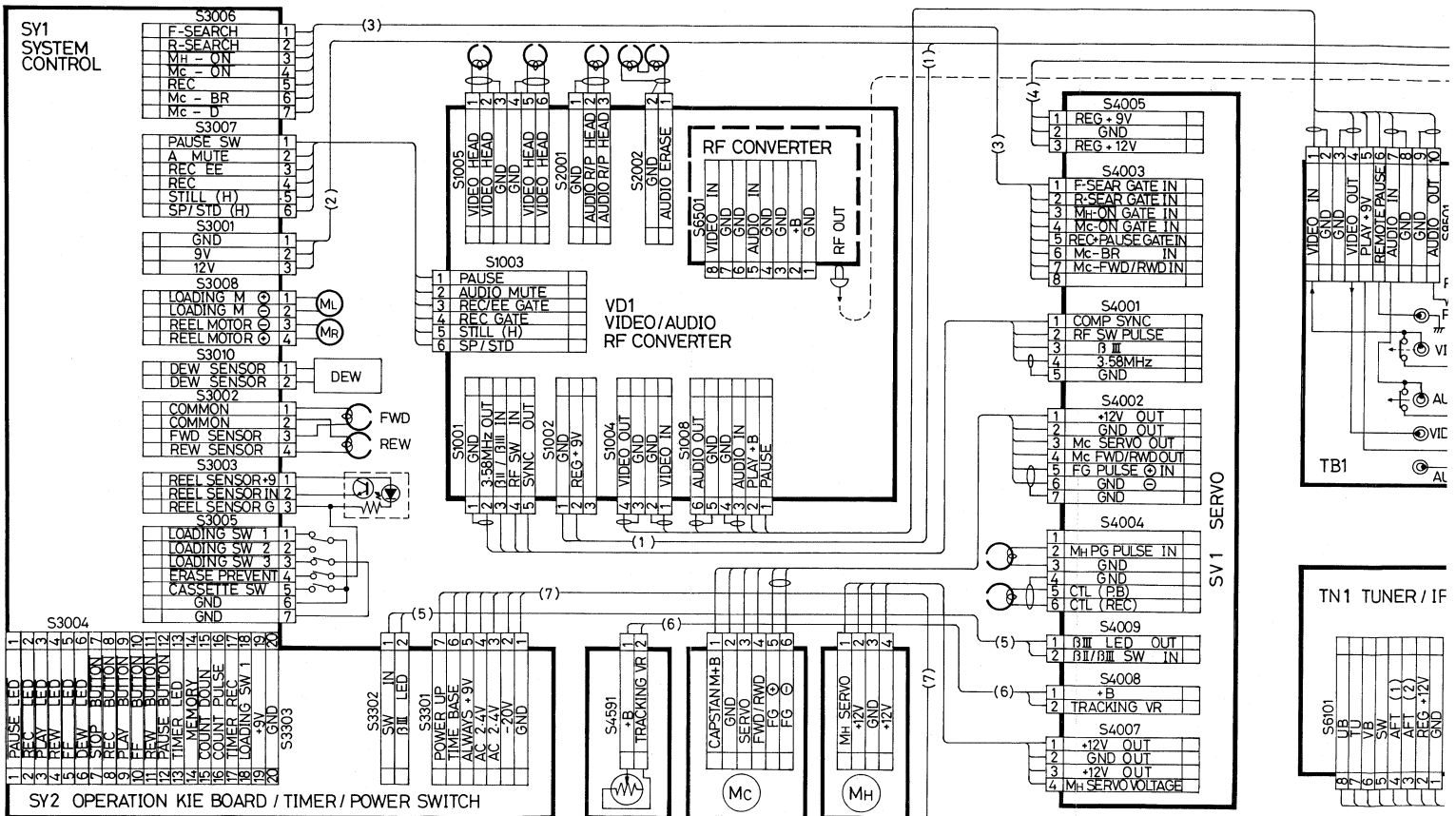
(11) MC-1 PCB. ELECTRICAL PARTS

Schematic Location	Parts No.	Description
	4-226V-92600	Printed Circuit Board
	4-202V-13200	Sensor, Supply Reel Revolution Detector
R3801		Carbon Resistor, 680 ohms

(12) SY-4 PCB. ELECTRICAL PARTS

Schematic Location	Parts No.	Description
		(INTEGRATED CIRCUITS)
IC3160		IC, LC4001B or TC4001BP
IC3161		IC, CD4538BE or HD14538BP or TC4538BP
		(DIODES)
D3160		1S1555 or 1S2473 or 1SS133 or DS442
D3161		1S1555 or 1S2473 or 1SS133 or DS442
D3162		1S1555 or 1S2473 or 1SS133 or DS446
		(CAPACITORS)
C3003		BL Ceramic, 0.1mfd (K), 25V
C3160	CF+-5-0334-JM++S	M. Polypro., 0.33mfd (J), 50V
C3161	CF+-5-0334-JM++S	M. Polypro., 0.33mfd (J), 50V
		(RESISTORS)
R3026		1K ohms
R3160		1K ohms
R3161		390K ohms
R3162		750K ohms
R3163		33K ohms

Schematic Location	Parts No.	Description
D6205		LED, PR5704S (Red ... Channel Light)
D6206		LED, PR5704S (Red ... Channel Light)
D6207		LED, PR5704S (Red ... Channel Light)
D6208		LED, PR5704S (Red ... Channel Light)
D6209		LED, PR5704S (Red ... Channel Light)
D6210		LED, PR5704S (Red ... Channel Light)
D6211		LED, PR5704S (Red ... Channel Light)
D6212		LED, PR5704S (Red ... Channel Light)
D6213		LED, PR5704S (Red ... VCR/ANT Light)
D6214		1S2472 or 1SS132 or DS442X
D6215		1S1555 or 1S2473
D6216		1S1555 or 1S2473
D6217		1S1555 or 1S2473
		(CAPACITORS)
C6201		Elect., 22mfd (M), 50V
C6202		Ceramic, 0.01mfd (Z), 50V
C6203		Elect., 100mfd (M), 16V
C6204		Mylar, 0.1mfd (K), 50V
C6205		Elect., 1mfd (M), 50V
		(RESISTORS)
R6201		10K ohms
R6202		15K ohms
R6203		10K ohms
R6204		15K ohms
R6205		1.2K ohms
R6206		100K ohms
R6207		1M ohms
R6208		10K ohms
R6209		39K ohms
R6210		470K ohms
R6211		1K ohms
R6212		560 ohms
R6213		1K ohms
R6214		1K ohms
R6215		1K ohms
R6216		15K ohms
R6217		1M ohms
R6218		1M ohms


SY1
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CONTROL
S3006
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R-SEARCH
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Mc - ON
REC
Mc - BR
Mc - D
S3007
PAUSE SW
A MUTE
REC EE
REC
STILL (H)
SP/STD (H)
S3001
GND
9V
12V
S3008
LOADING M
LOADING M
REEL MOTOR
REEL MOTOR
S3010
DEW SENSOR
DEW SENSOR
DEW
S3002
COMMON
COMMON
FWD SENSOR
REW SENSOR
FWD
REW
S3003
REEL SENSOR +9
REEL SENSOR IN
REEL SENSOR G
S3005
LOADING SW 1
LOADING SW 2
LOADING SW 3
ERASE PREVENT
CASSETTE SW
GND
GND
S3004
PAUSE LED
REC LED
PLAY LED
REW LED
FF LED
DEW LED
STOP BUTTON
REC BUTTON
PLAY BUTTON
FF BUTTON
REW BUTTON
PAUSE BUTTON
TIMER LED
MEMORY
MEM DOWN
COUNT PULSE
TIMER REC
LOADING SW 1
+9V
GND
S3303
SY2 OPERATION KIE BOARD / TIMER / POWER SWITCH
S3302
SW IN
βIII LED
S3301
POWER UP
TIME BASE
ALWAYS +9V
AC 2.4V
AC 2.4V
-20V
GND
S4591
+B
TRACKING VR
CAPSTAN M+B
GND
SERVO
FWD/RWD
FG
FG
Mc
MH SERVO
+12V
GND
+12V
MH
S1005
VIDEO HEAD
VIDEO HEAD
GND
GND
VIDEO HEAD
VIDEO HEAD
S2001
GND
AUDIO R/P HEAD
AUDIO R/P HEAD
S2002
GND
AUDIO ERASE
RF CONVERTER
S6501
VIDEO IN
GND
GND
AUDIO IN
GND
GND
+B
GND
RF OUT
S1003
PAUSE
AUDIO MUTE
REC/EE GATE
REC GATE
STILL (H)
SP/STD
VD1
VIDEO/AUDIO
RF CONVERTER
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GND
3.58MHz OUT
βII / βIII IN
RF SW IN
SYNC OUT
S1002
GND
REG +9V
S1004
VIDEO OUT
GND
GND
VIDEO IN
S1008
AUDIO OUT
GND
AUDIO IN
PLAY +B
PAUSE
S4005
REG +9V
GND
REG +12V
S4003
F-SEAR GATE IN
R-SEAR GATE IN
MH-ON GATE IN
MC-ON GATE IN
REC+PAUSE GATE IN
Mc-BR IN
Mc-FWD/RWD IN
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COMP SYNC
RF SW PULSE
βIII
3.58MHz
GND
S4002
+12V OUT
GND OUT
Mc SERVO OUT
Mc FWD/RWD OUT
FG PULSE IN
GND
GND
S4004
MH PG PULSE IN
GND
GND
CTL (PB)
CTL (REC)
S4009
βIII LED OUT
βII/βIII SW IN
S4008
+B
TRACKING VR
S4007
+12V OUT
GND OUT
+12V OUT
MH SERVO VOLTAGE
SV1 SERVO
VIDEO IN
GND
GND
VIDEO OUT
PLAY +9V
REMOTE PAUSE
AUDIO IN
GND
GND
AUDIO OUT
TB1
TN1 TUNER / IF
S6101
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SW
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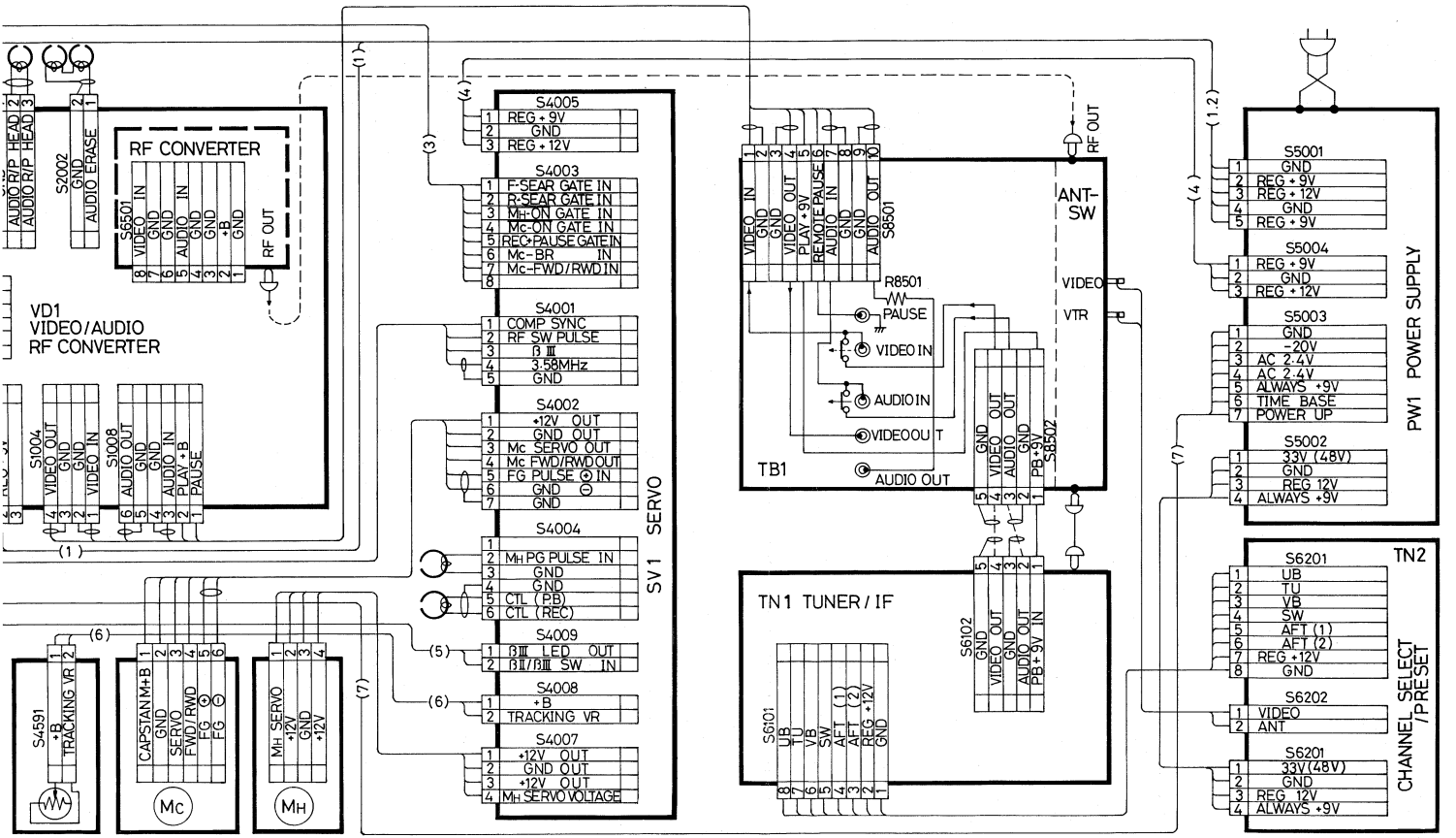
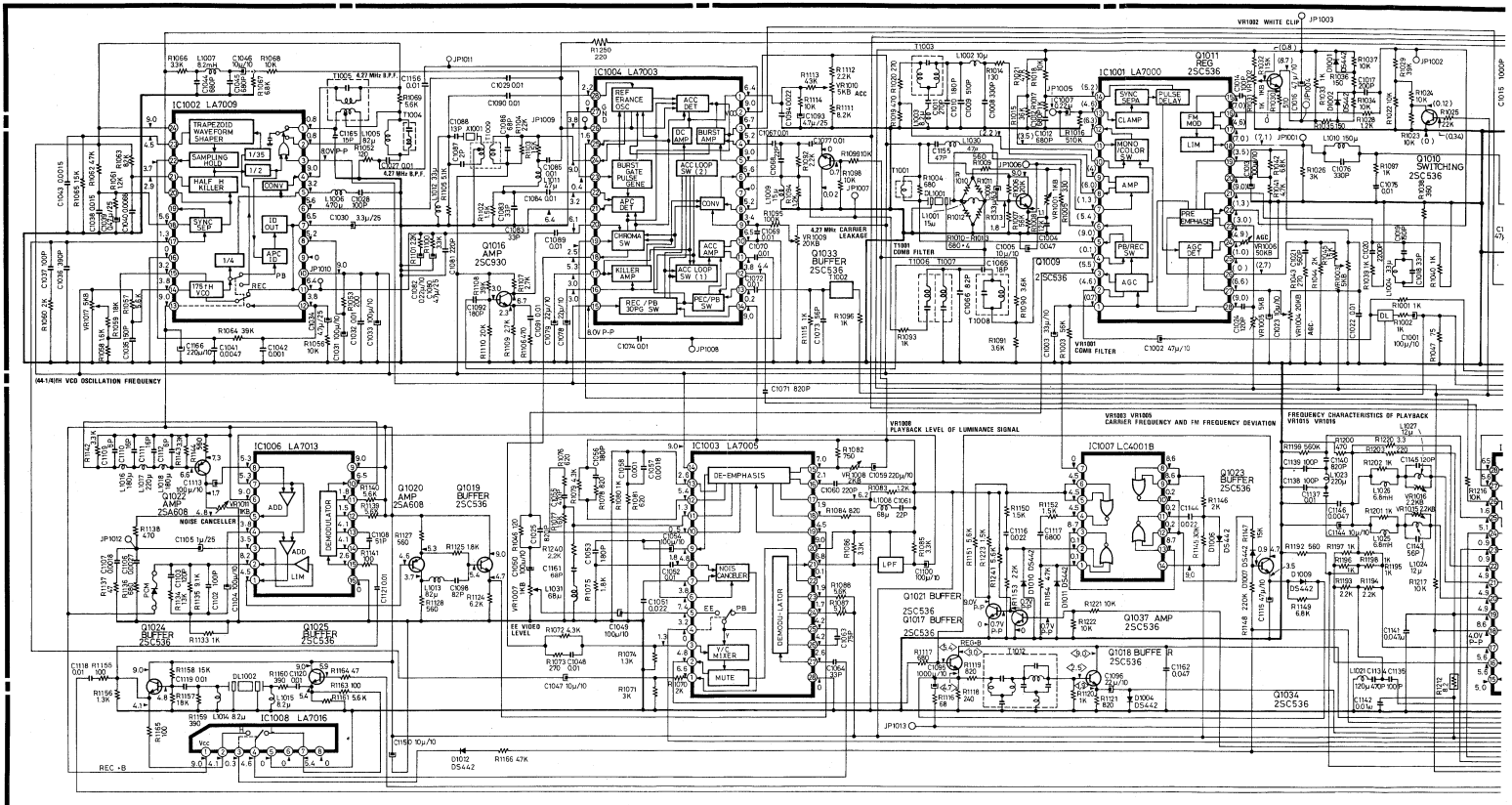
GND

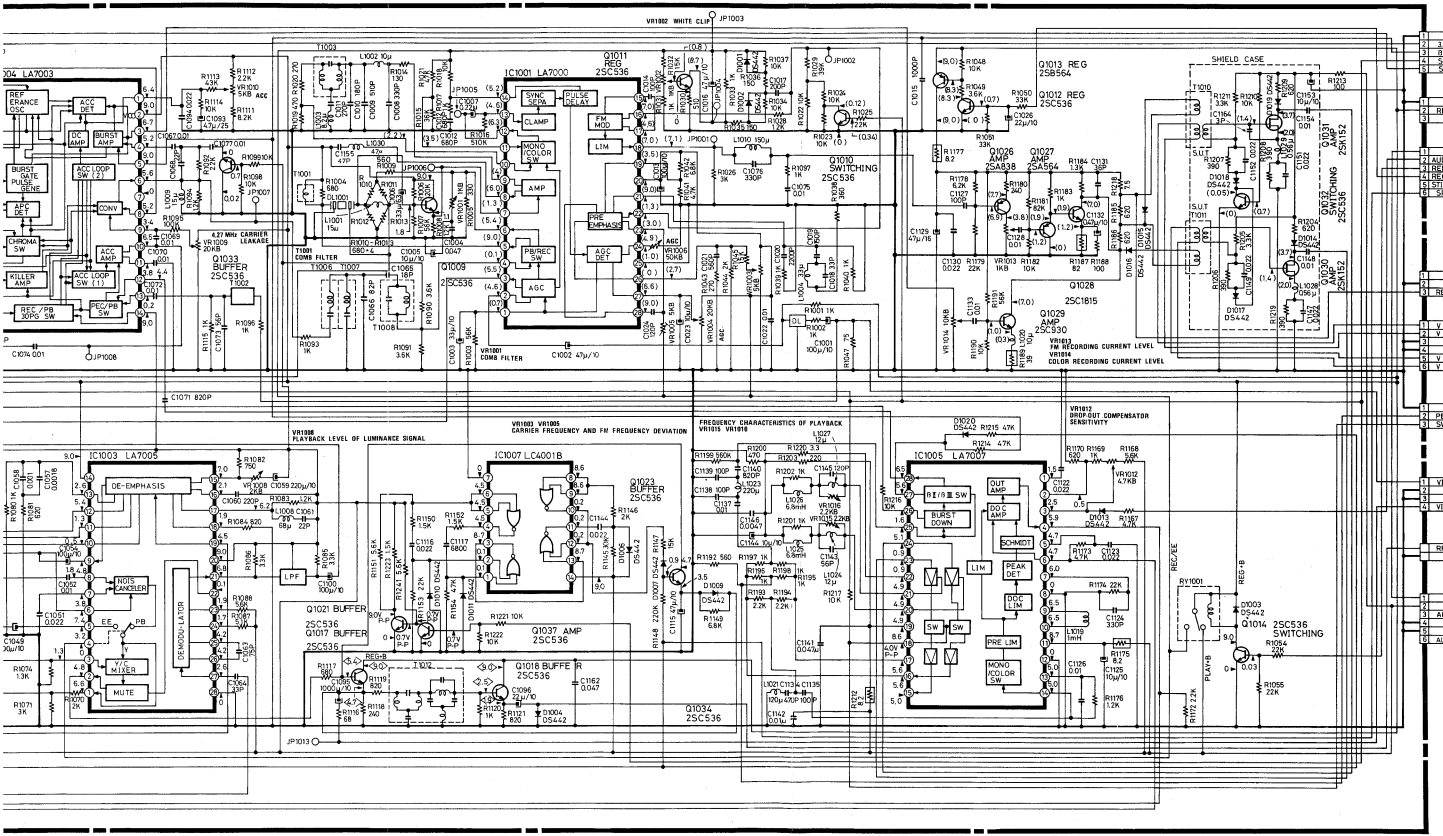
OVERALL WIRING DIAGRAM



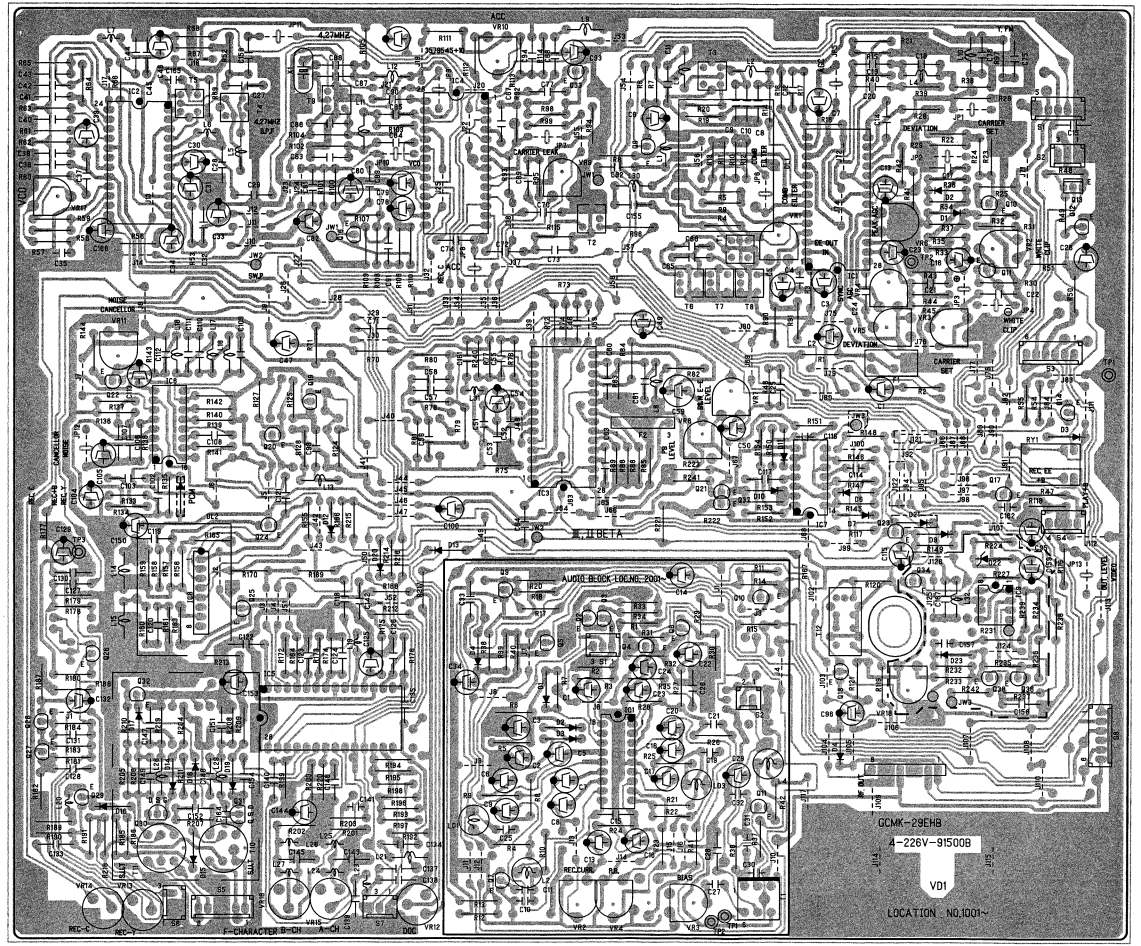
P.C.B. VD-1 VIDEO CIRCUIT

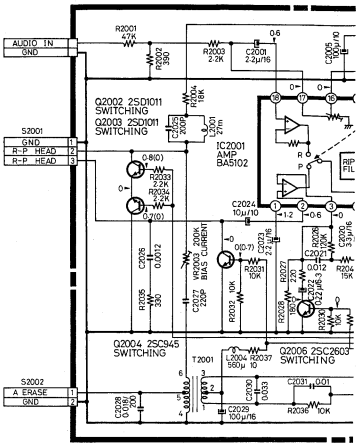


P.C.B. VD-1 VIDEO CIRCUIT



P.C.B. VD-1 VIDEO/AUDIO/RF CONVERTER





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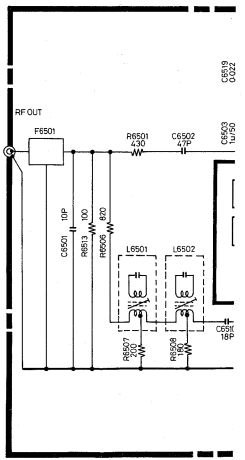
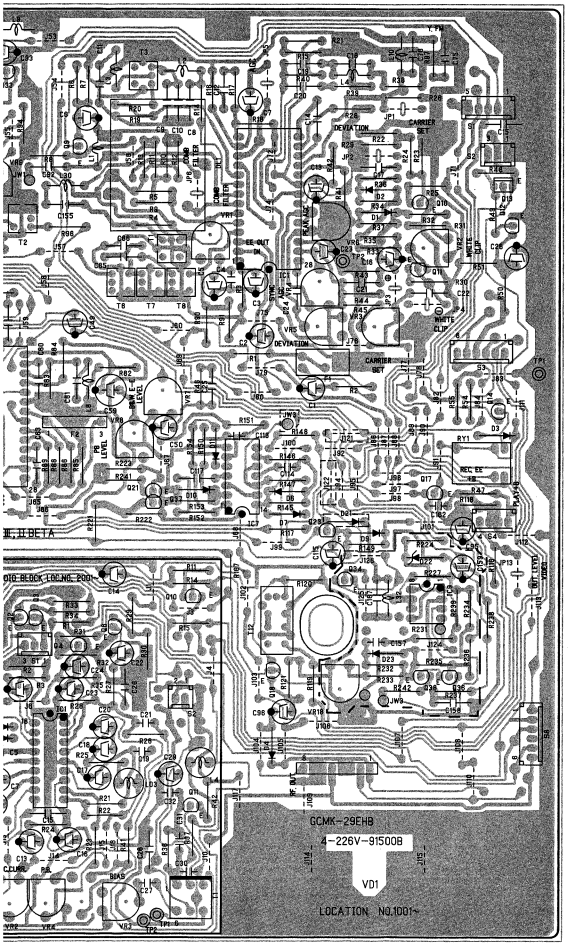
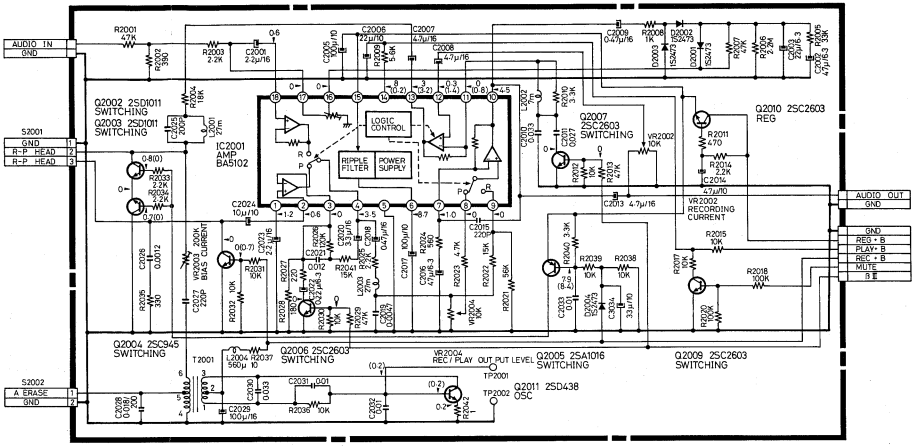


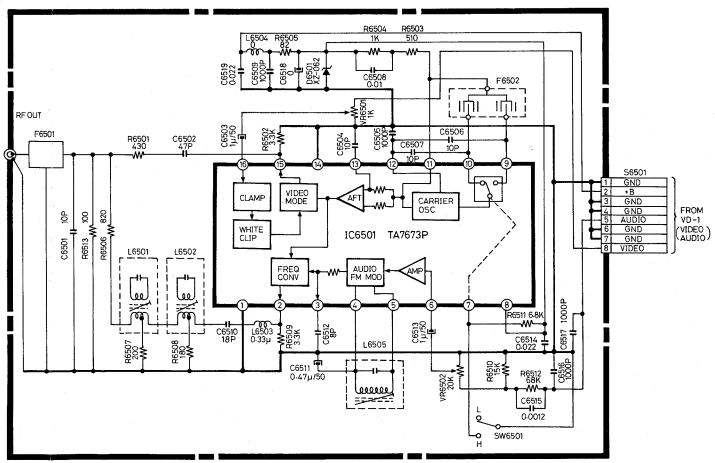
EO/AUDIO/RF CONVERTER



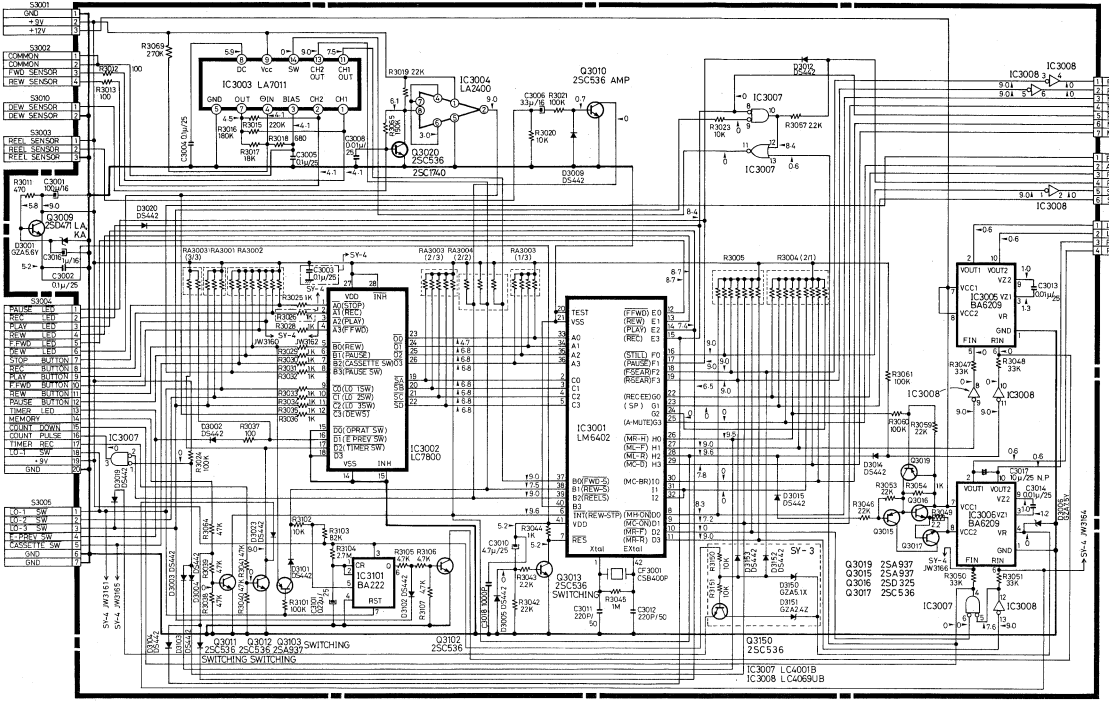
P.C.B. VD-1 AUDIO CIRCUIT



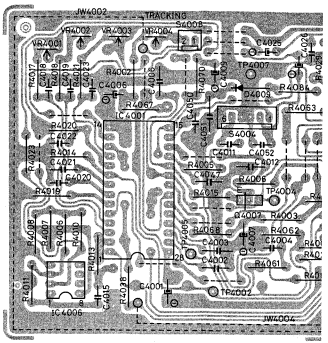
P.C.B. VD-1 RF CONVERTER CIRCUIT



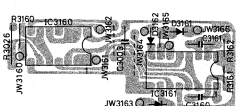
P.C.B. SY-1 SYSTEM CONTROL CIRCUIT

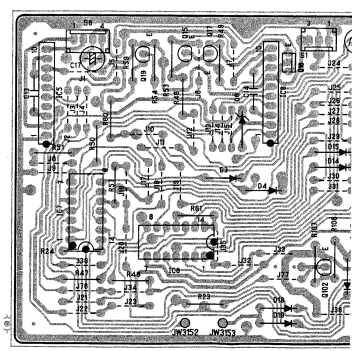


VR4001 ~ VR4003
HEAD SERVO SWITCHING

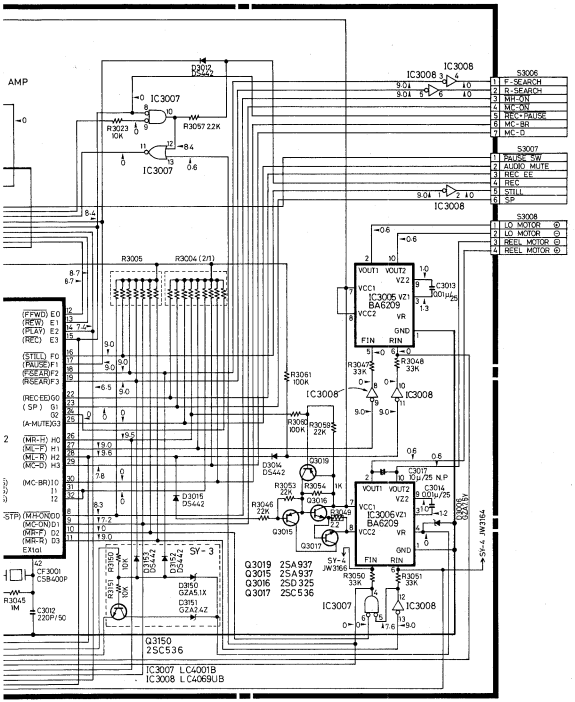


P.C.B. SY-4

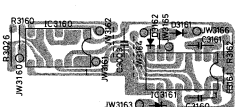




M CONTROL CIRCUIT

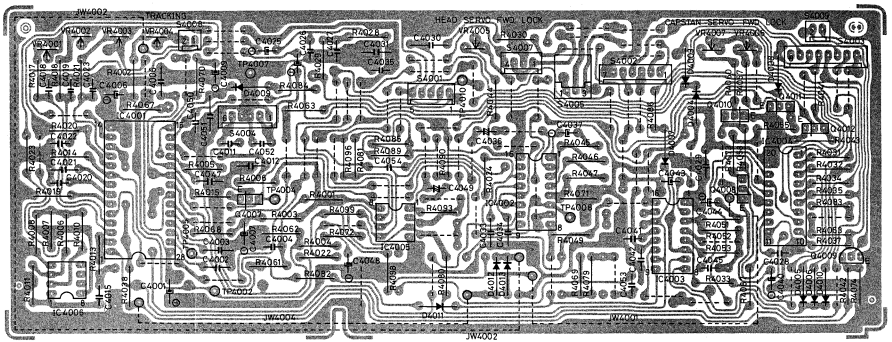


P.C.B. SY-4



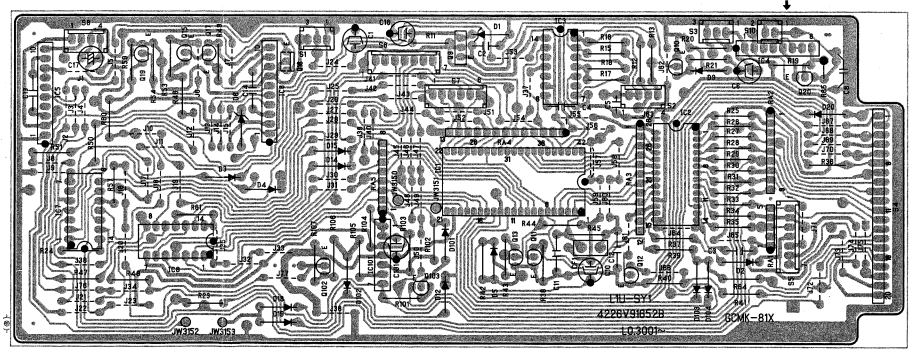
P.C.B. SV-1 SERVO

VR4001 ~ VR4003
HEAD SERVO SWITCHING

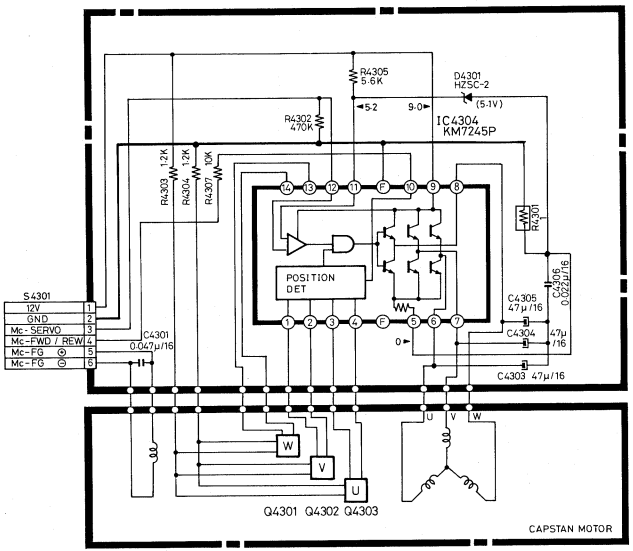


P.C B. SY-1 SYSTEM CONTROL

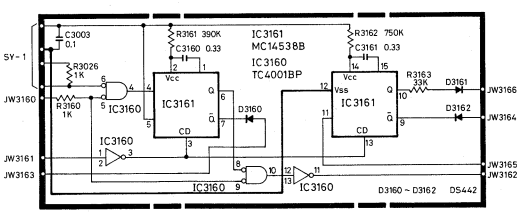
SY-4



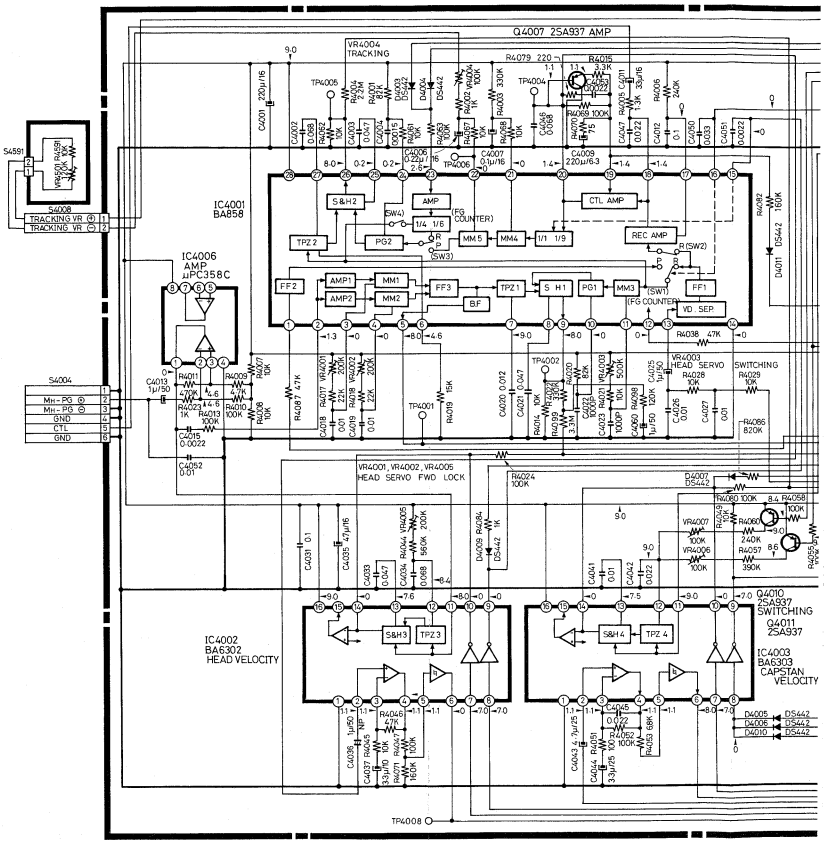
P.C.B. SV-2 CAPSTAN MOTOR CIRCUIT



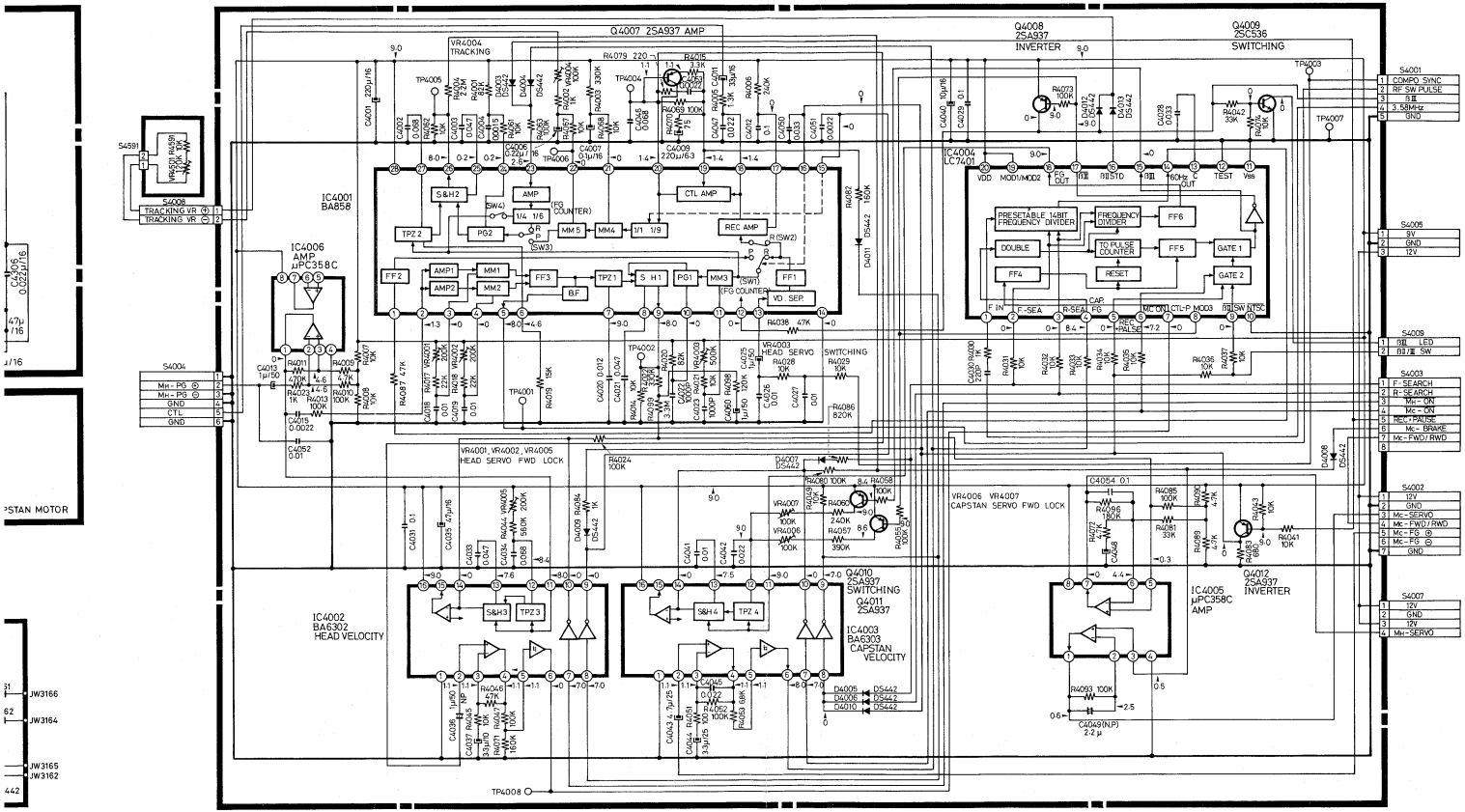
P.C.B. SY-4 SYSTEM CONTROL CIRCUIT



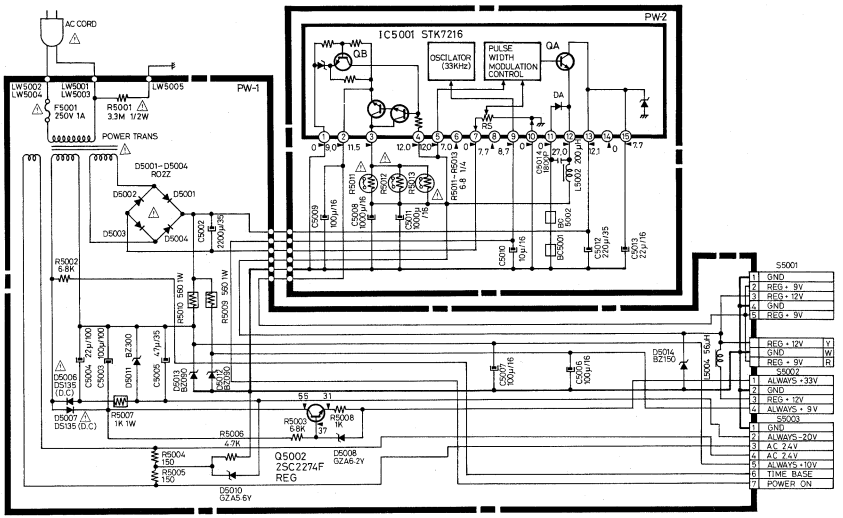
P.C.B. SV-1 SERVO CIRCUIT



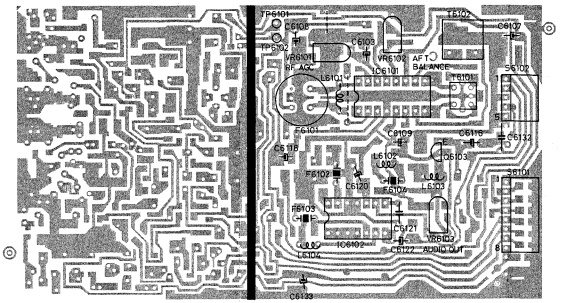
P.C.B. SV-1 SERVO CIRCUIT



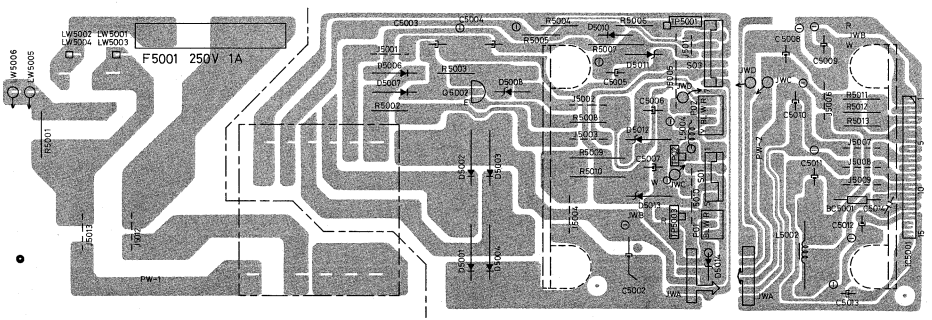
P.C.B. PW-1·2 POWER SUPPLY CIRCUIT



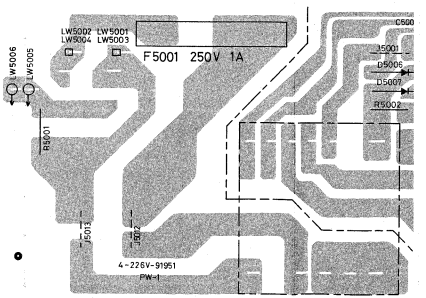
P.C.B. TN-1 TUNER/I·F

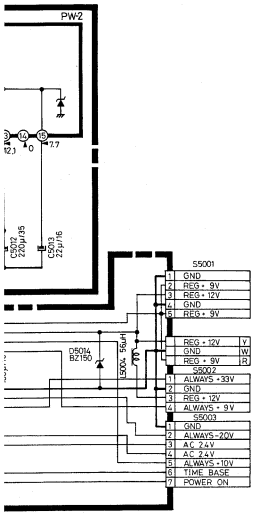


P.C.B. PW-1·2 POWER SUPPLY

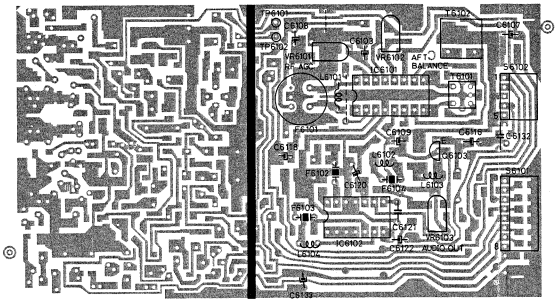


P.C.B. PW-1·2 P

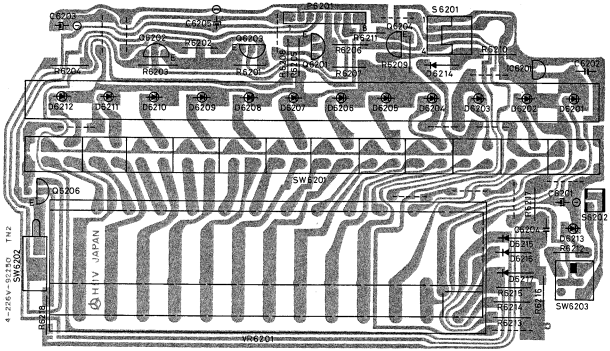


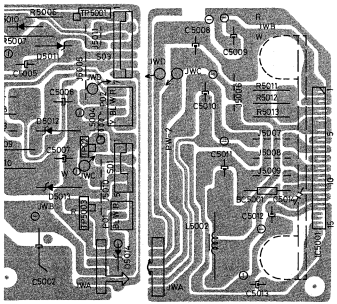


P.C.B. TN-1 TUNER/I·F

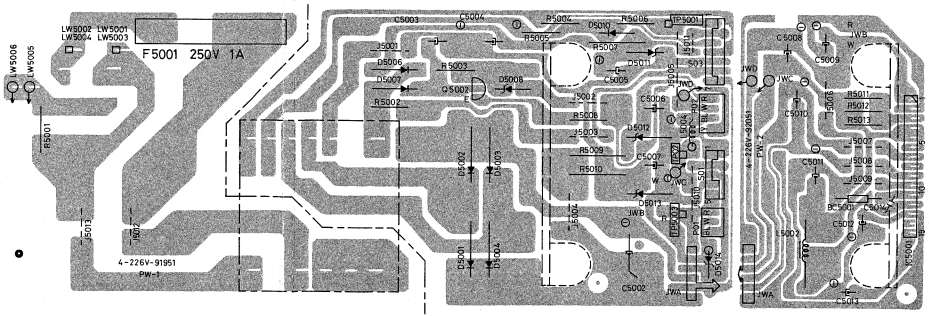


P.C.B. TN-2 CHANNEL PRE-SET/SELECT

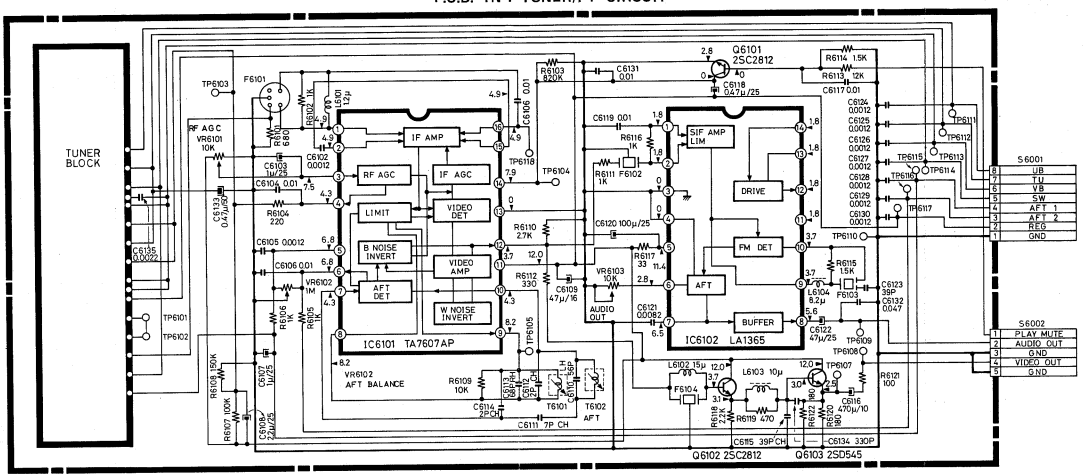




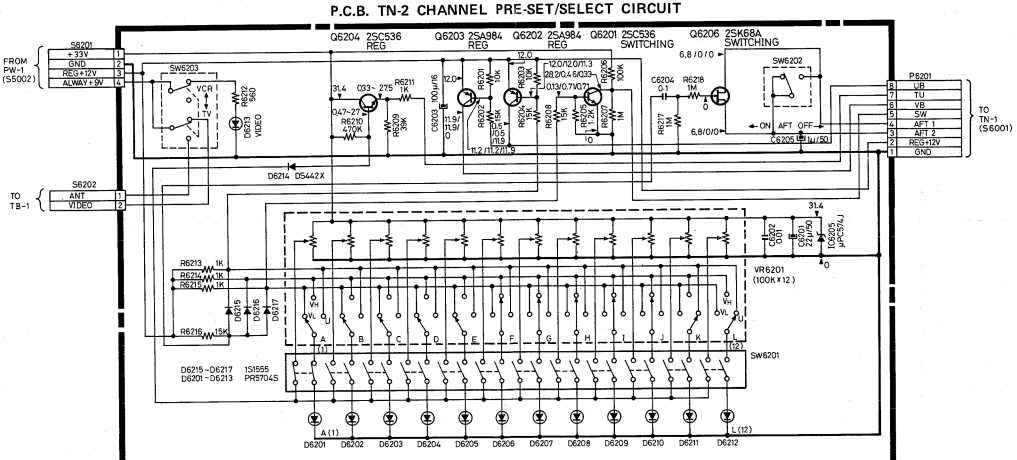
P.C.B. PW-1·2 POWER SUPPLY (CANADA)



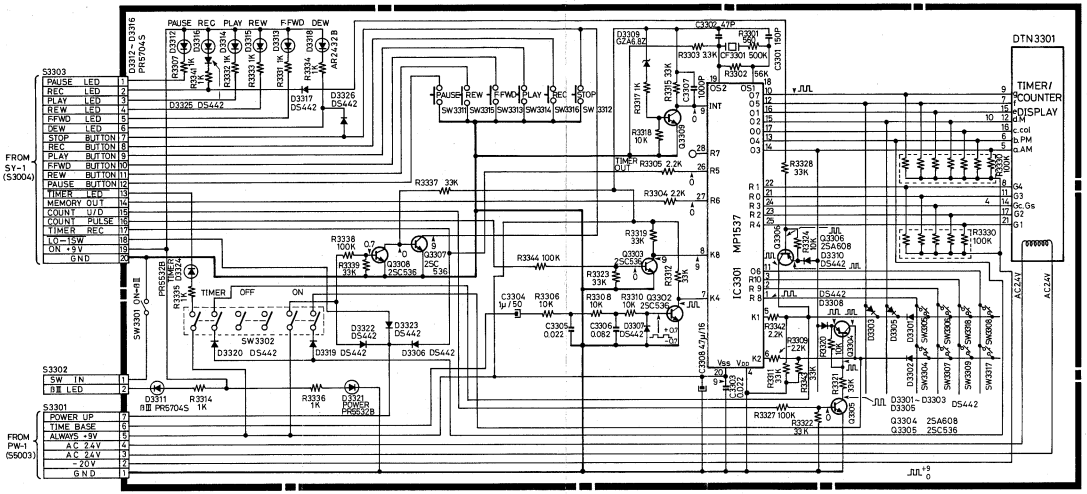
P.C.B. TN-1 TUNER/I·F CIRCUIT



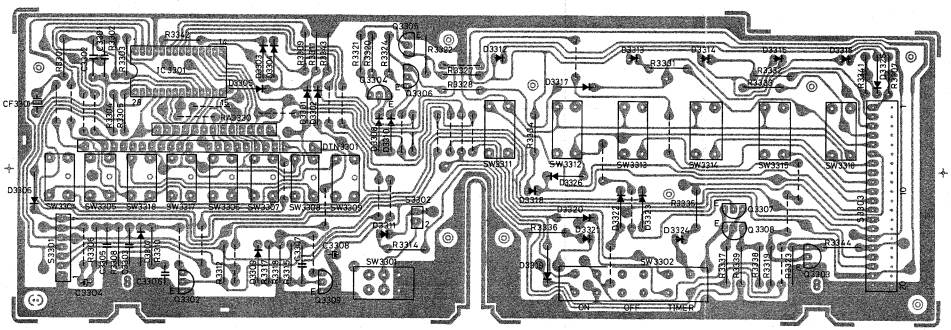
P.C.B. TN-2 CHANNEL PRE-SET/SELECT CIRCUIT



P.C.B. SY-2 TIMER/OPERATION KEY-BOARD SWITCH CIRCUIT



P.C.B. SY-2 TIMER/OPERATION KEY-BOARD SWITCH



SW3305	SW3306	SW3318	SW3308
MEMORY/ HOUR	REC STOP	DAY	SET
SW3304	SW3307	SW3309	SW3317
RESET/ MINUTE	REC START	COUNTER/ CLOCK	REC DAY